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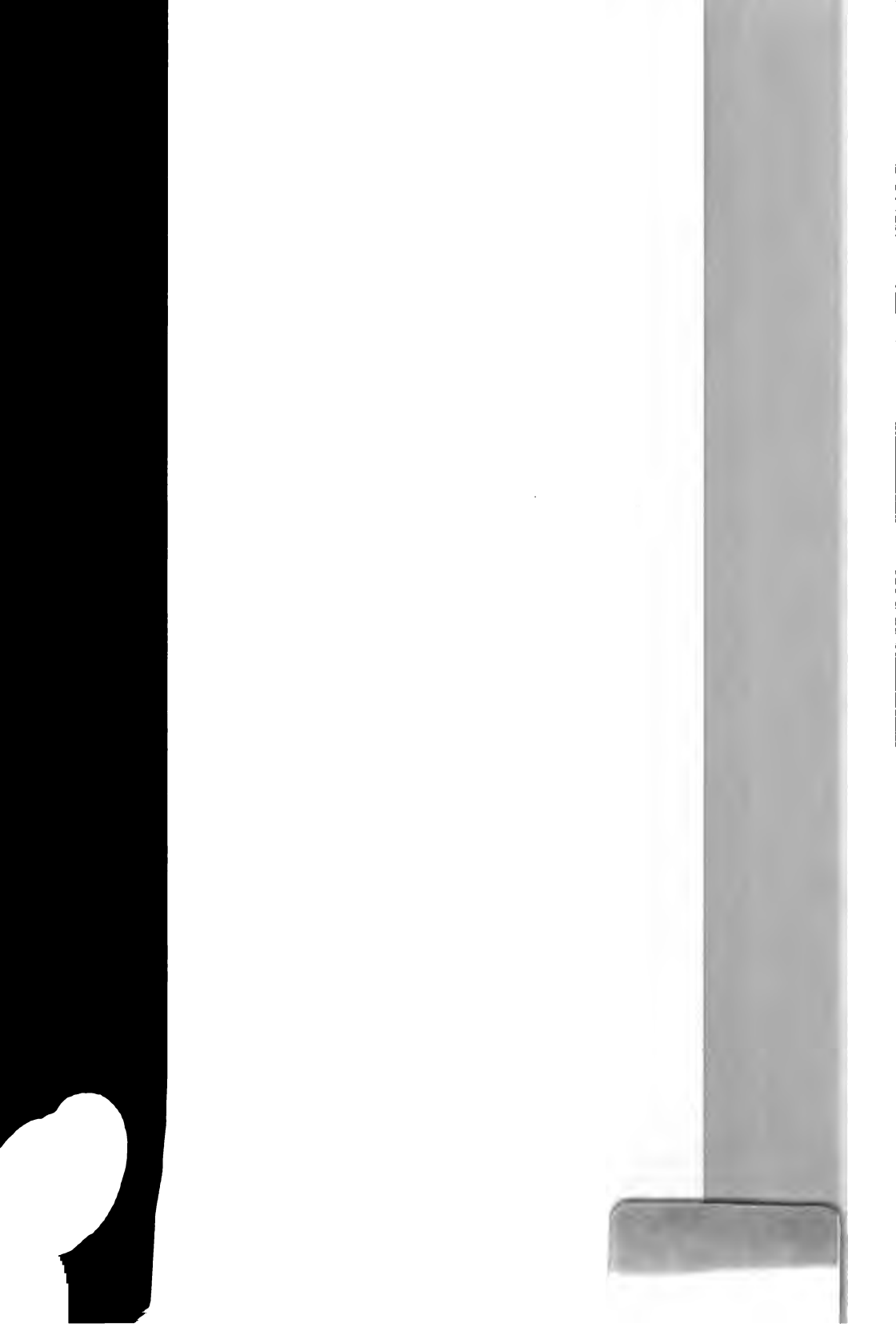


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PEABODY MUSEUM.

FORTY-FIRST ANNUAL REPORT

OF THE

TRUSTEES

OF

THE AMERICAN MUSEUM  
OF NATURAL HISTORY

FOR THE YEAR 1909



A FREE INSTITUTION

FOR THE PEOPLE

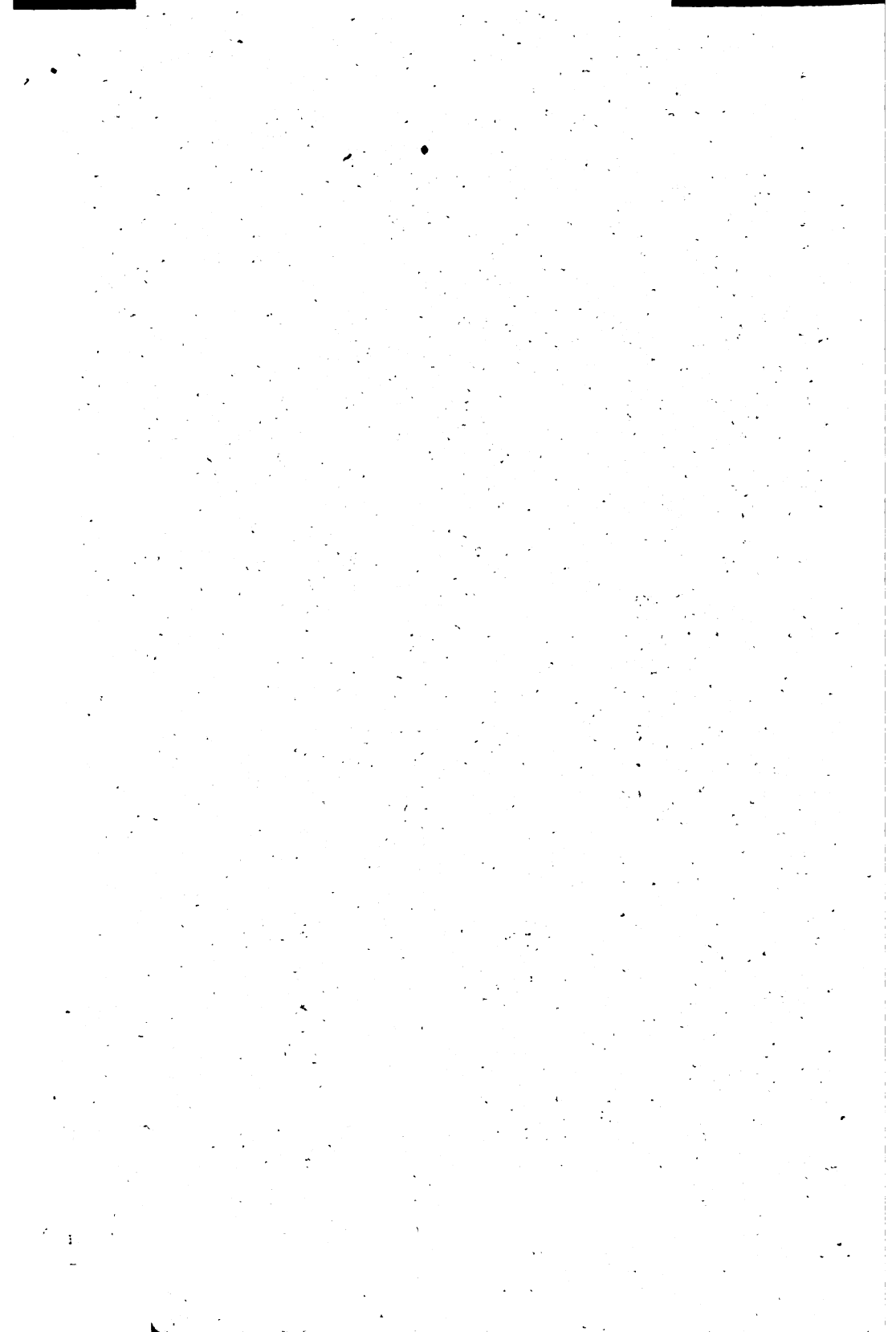
FOR EDUCATION

FOR SCIENCE

NEW YORK

ISSUED MAY 1, 1910









**THE AMERICAN MUSEUM OF  
NATURAL HISTORY**

**INCORPORATED IN 1869**



# MEMBERSHIP AND ENDOWMENT

---

There are more than two thousand residents of New York and vicinity who support the educational and scientific work of the Museum and enjoy its lectures, publications and other privileges.

Annual Members . . . . .	\$ 10
Sustaining Members (annually) . . . . .	25
Life Members . . . . .	100
Fellows . . . . .	500
Patrons . . . . .	1,000
Benefactors . . . . .	50,000

The Endowment Fund was established in 1884. The Trustees desire to insure the permanent growth and welfare of the Museum through an increase of this fund.

# FORM OF GIFT OR BEQUEST

---

*I do hereby give and bequeath to "THE AMERICAN  
MUSEUM OF NATURAL HISTORY" of the City of  
New York,*.....

.....  
.....



**IRVING PRESS**

**119 AND 121 EAST THIRTY-FIRST STREET  
NEW YORK**

**FORTY-FIRST ANNUAL REPORT**  
**OF**  
**THE AMERICAN MUSEUM**  
**OF NATURAL HISTORY**

**FOR THE YEAR 1909**

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**Annual Report of the President**  
**Treasurer's Report                      List of Accessions**  
**Act of Incorporation**  
**Contract with the Department of Parks**  
**Constitution              By-Laws and List of Members**



**NEW YORK**  
**ISSUED MAY 1, 1910**



# CONTENTS

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	PAGE
MEMBERSHIP AND ENDOWMENT.....	5
FORM OF BEQUEST.....	5
BOARD OF TRUSTEES.....	10
COMMITTEES AND OFFICERS.....	11
APPOINTIVE COMMITTEES.....	12
SCIENTIFIC STAFF.....	13
PRESIDENT'S REPORT.....	15
Endowment and Maintenance.....	15
Appointive Committees.....	16
Museum Extension.....	17
Administration and Building.....	18
Scientific Staff.....	18
Building.....	19
Public Education.....	20
Museum Extension to the Schools and Libraries.....	20
Lectures to School Children.....	20
Children's Room.....	21
Room for the Blind.....	21
Astronomy.....	21
Attendance.....	21
Lecture Courses.....	22
Hospitality to Scientific Societies.....	26
Explorations, Collections and Exhibitions.....	27
Explorations.....	27
Minerals—Department of Mineralogy.....	28
Mammals and Birds—Department of Mammalogy and	
Ornithology.....	29
Extinct Mammals and Birds—Department of Vertebrate	
Palæontology.....	31
Living and Extinct Reptiles, Batrachians and Fishes—	
Department of Ichthyology and Herpetology.....	32
Modern Invertebrates—Darwin Hall.....	34
Hall of Local Insects and Insect Biology.....	34
Extinct Invertebrates—Department of Geology and Inverte-	
brate Palæontology.....	36

## *Contents*

<b>PRESIDENT'S REPORT—Continued</b>	<b>PAGE</b>
Living and Extinct Races of Men—Department of Anthro- pology.....	38
Physiology—Department of Physiology.....	40
Woods and Forestry .....	41
The Library—Department of Books and Publications .....	41
Publications .....	42
Membership.....	45
Classes of Membership.....	5
New Members.....	45
Deceased Trustees and Members.....	48
Finances, Maintenance, Endowment.....	50
City Maintenance Account.....	50
General Account.....	50
Trustees Special Funds Account.....	51
Trustees Permanent Endowment.....	51
<b>FINANCIAL STATEMENT.....</b>	<b>53</b>
<b>ACCESSIONS.....</b>	<b>64</b>
Public Instruction.....	64
Geology and Invertebrate Palæontology.....	65
Mammalogy and Ornithology.....	67
Vertebrate Palæontology.....	71
Ichthyology and Herpetology.....	72
Anthropology.....	75
Mineralogy.....	79
Invertebrate Zoölogy.....	81
Mollusca.....	85
Trees.....	85
<b>ACT OF INCORPORATION.....</b>	<b>88</b>
<b>CONTRACT WITH THE DEPARTMENT OF PUBLIC PARKS.....</b>	<b>90</b>
<b>CONSTITUTION.....</b>	<b>96</b>
<b>BY-LAWS .....</b>	<b>102</b>
<b>LEGISLATION.....</b>	<b>105</b>
<b>LIST OF MEMBERS .....</b>	<b>108</b>
Patrons .....	108
Fellows.....	110
Honorary Fellows.....	110
Life Members.....	111
Sustaining Members.....	117
Annual Members.....	118

# BOARD OF TRUSTEES

FOR 1910

---

## President

HENRY FAIRFIELD OSBORN

## First Vice-President

J. PIERPONT MORGAN

## Second Vice-President

CLEVELAND H. DODGE

## Treasurer

CHARLES LANIER

## Secretary

J. HAMPDEN ROBB

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## EX-OFFICIO

THE MAYOR OF THE CITY OF NEW YORK  
THE COMPTROLLER OF THE CITY OF NEW YORK  
THE PRESIDENT OF THE DEPARTMENT OF PARKS

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## ELECTIVE

### CLASS OF 1910

J. HAMPDEN ROBB

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ARTHUR CURTISS JAMES

JOHN B. TREVOR

J. PIERPONT MORGAN, Jr.

### CLASS OF 1911

CHARLES LANIER

WILLIAM ROCKEFELLER

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GUSTAV E. KISSEL

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CLEVELAND H. DODGE

A. D. JUILLIARD

ARCHER M. HUNTINGTON

### CLASS OF 1914

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HENRY FAIRFIELD OSBORN

JAMES DOUGLAS

GEORGE W. WICKERSHAM

# COMMITTEES OF THE BOARD OF TRUSTEES FOR 1910

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## Executive Committee

HENRY FAIRFIELD OSBORN, *Chairman*

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CLEVELAND H. DODGE    ARTHUR CURTISS JAMES  
CHARLES LANIER        A. D. JUILLIARD  
J. HAMPDEN ROBB        ARCHER M. HUNTINGTON  
JOHN B. TREVOR

## Auditing Committee

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## Nominating Committee

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## Committee on Buildings and Plans

J. PIERPONT MORGAN, JR., *Chairman*  
JOHN B. TREVOR

The President is *ex-officio* a member of all  
Standing Committees

---

# ADMINISTRATIVE OFFICERS

---

## Director

HERMON CAREY BUMPUS

## Assistant Secretary and Assistant Treasurer

GEORGE H. SHERWOOD

# APPOINTIVE COMMITTEES FOR 1910\*

---

## *COMMITTEE ON BIRD GROUPS*

JOHN L. CADWALADER, *Chairman*

## *COMMITTEE ON AFRICAN EXPLORATION*

JOHN B. TREVOR, *Chairman*

HERMON C. BUMPUS

JAMES GUSTAVUS WHITELEY

ROBERT W. GOELET

HERBERT L. BRIDGMAN

FRANK M. CHAPMAN

## *COMMITTEE ON PRIMITIVE PEOPLES OF THE SOUTHWEST*

ARCHER M. HUNTINGTON, *Chairman*

JAMES DOUGLAS

## *COMMITTEE ON ANTARCTIC EXPLORATION*

ARCHER M. HUNTINGTON, *Chairman*

ARTHUR CURTISS JAMES

HERMON C. BUMPUS

## *COMMITTEE ON NORTH AMERICAN WOODS AND FORESTRY*

GIFFORD PINCHOT, *Chairman*

Mrs. MORRIS K. JESUP

Prof. JAMES W. TOUMEY

Miss MARY PARSONS, *Secretary*

## *COMMITTEE ON FISHES AND MARINE LIFE*

CLEVELAND H. DODGE, *Chairman*

ERNESTO FABBRI

ALESSANDRO FABBRI

CHARLES H. TOWNSEND

## *COMMITTEE ON MINERALS AND MINES*

JAMES DOUGLAS, *Chairman*

## *COMMITTEE ON INDIANS OF THE PLAINS*

ARCHIBALD ROGERS, *Chairman*

GEORGE BIRD GRINNELL

---

\* These Committees are appointed annually by the President, for service kindly volunteered to the respective departments.

# SCIENTIFIC STAFF

FOR 1910

---

## *DIRECTOR*

HERMON CAREY BUMPUS, Ph.D., Sc.D., LL.D.

## *DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY*

Prof. R. P. WHITFIELD, A.M., Curator Emeritus  
EDMUND OTIS HOVEY, A.B., Ph.D., Curator

## *DEPARTMENT OF MINERALOGY*

L. P. GRATACAP, Ph.B., A.B., A.M., Curator  
GEORGE F. KUNZ, A.M., Ph.D., Honorary Curator of Gems

## *DEPARTMENT OF INVERTEBRATE ZOÖLOGY*

Prof. HENRY E. CRAMPTON, A.B., Ph.D., Curator  
ROY W. MINER, A.B., Assistant Curator  
FRANK E. LUTZ, A.B., A.M., Ph.D., Assistant Curator  
L. P. GRATACAP, Ph.B., A.B., A.M., Curator of Mollusca  
WILLIAM BEUTENMÜLLER, Associate Curator of Lepidoptera

Prof. WILLIAM MORTON WHEELER, Ph.D., Honorary Curator of Social Insects  
ALEXANDER PETRUNKEVITCH, Ph.D., Honorary Curator of Arachnida  
Prof. AARON L. TREADWELL, B.S., M.S., Ph.D., Honorary Curator of Annulata

## *DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY*

Prof. BASHFORD DEAN, A.B., A.M., Ph.D., Curator of Fishes and Reptiles  
LOUIS HUSSAKOF, B.S., Ph.D., Assistant Curator of Fossil Fishes

## *DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY*

Prof. J. A. ALLEN, Ph.D., Curator  
FRANK M. CHAPMAN, Curator of Ornithology  
ROY C. ANDREWS, A.B., Assistant in Mammalogy  
W. de W. MILLER, Assistant in Ornithology

## *DEPARTMENT OF VERTEBRATE PALÆONTOLOGY*

Prof. HENRY FAIRFIELD OSBORN, A.B., Sc.D., LL.D., D.Sc., Curator  
W. D. MATTHEW, Ph.B., A.B., A.M., Ph.D., Associate Curator  
WALTER GRANGER, Assistant Curator of Fossil Mammals  
BARNUM BROWN, A.B., Assistant Curator of Fossil Reptiles

## SCIENTIFIC STAFF FOR 1910—*Continued*

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### *DEPARTMENT OF ANTHROPOLOGY*

CLARK WISSLER, A.B., A.M., Ph.D., Curator  
PLINY E. GODDARD, A.B., A.M., Ph.D., Associate Curator  
HARLAN I. SMITH, Associate Curator  
ROBERT H. LOWIE, A.B., Ph.D., Assistant Curator  
HERBERT J. SPINDEN, A.B., A.M., Ph.D., Assistant Curator  
CHARLES W. MEAD, Assistant  
ALANSON SKINNER, Assistant

### *DEPARTMENT OF PHYSIOLOGY*

Prof. RALPH W. TOWER, A.B., A.M., Ph.D., Curator

### *DEPARTMENT OF PUBLIC HEALTH*

Prof. CHARLES-EDWARD AMORY WINSLOW, S.B., M.S., Curator

### *DEPARTMENT OF WOODS AND FORESTRY*

MARY CYNTHIA DICKERSON, In Charge

### *DEPARTMENT OF BOOKS AND PUBLICATIONS*

Prof. RALPH W. TOWER, A.B., A.M., Ph.D., Curator  
A. WOODWARD, Ph.D., In Charge of Maps and Charts

### *DEPARTMENT OF PUBLIC EDUCATION*

Prof. ALBERT S. BICKMORE, B.S., Ph.D., LL.D., Curator Emeritus  
GEORGE H. SHERWOOD, A.B., A.M., Curator







MEMORIAL STATUE OF MORRIS K. JESUP  
By William Couper, Sculptor

## FORTY-FIRST ANNUAL REPORT

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*To the Trustees and Members of The American Museum of Natural History, and to the Municipal Authorities of the City of New York:*

The President submits herewith a report of the activities of the Museum during the year 1909.

Both the scientific and the administrative branches of the Museum, under the guidance of Director Hermon C. Bumpus, have made greater progress than in any previous year.

The past history and the future scope and plan of the Museum have continued to be subjects of very careful investigation and reflection. As intimated in the Fortieth Annual Report, it is of the utmost importance that the Trustees and the City should have before them an ideal plan of a complete and perfectly arranged Natural History Museum covering all the branches of natural science, so that all of the work of the Museum shall be so arranged as ultimately to become a part of the final plan. Opportunity often dictates what collections shall be secured, what halls shall be first arranged, what explorations shall be sent out. But a policy of opportunity is not a wise one for the future, which must prepare for the needs of a very much greater city than New York is at the present time in such a manner as to be a source of pride and a most efficient agent of public enlightenment in pure and applied science. This, together with the establishment of a great library, was among the original plans of the Founders of the Museum in 1869. Such a report on the future scope and plan has been prepared and submitted\* by the President, but it will not be published until it has received both the careful consideration and the approval of the Trustees.

### ENDOWMENT AND MAINTENANCE

An increase of the endowment is the greatest need of the Museum at this time. The present fund of \$2,195,645.92 should be increased to at least \$5,000,000. The munificent

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\* At the Annual Meeting, February 14, 1910.

bequest of Mr. Jesup has indirectly enabled the Trustees to extend the scientific staff (pages 13 and 14) for the first time to cover all the branches of natural history, some of which were, of necessity, slighted or set aside in the early development of the Museum. The gifts and special funds for the past year (pages 58 to 63) have been more liberal than ever before, and promise to increase year by year. Through these gifts a number of very important expeditions has been fitted out, including among others two to Africa, one to the East Indies, one to the Arctic Ocean and one to the pueblos of the Southwestern States. All of these special gifts increase our collections, but none of them provides for their installation and exhibition, which are the legitimate uses of the Endowment Fund, on the theory that the Trustees present the collections, while the City houses and cares for them. The uses of an increased Endowment Fund are to widen our already wide sphere of exploration, to further enrich our collections and to hasten the installation of material now in hand.

Similarly, to meet our present needs, the City Maintenance Fund should be increased to the legal limit of \$200,000. During the present year it has amounted to \$180,048.69. For purposes of bookkeeping the Maintenance Account has been kept separately, so that it does not show the deficit which actually exists this year of \$36,670.01 over and above the amount provided by the City. The Maintenance deficits between the years 1901 and 1909 have reached a total of \$152,665.93. Every dollar thus expended by the Trustees from the Endowment Fund and from special gifts is a direct loss to the City, because it means so much less expenditure on collections.

### APPOINTIVE COMMITTEES

The various Appointive Committees have become important agents of the Museum's growth during the past year. Through special interest and through service of time and advice most generously volunteered, as well as through special subscriptions, these Committees are greatly increasing the efficiency of the administration. As at present established (see page 12) the Committees are as follows:

<i>Subject</i>	<i>Chairman</i>
Habitat Bird Groups,	JOHN L. CADWALADER
African Exploration,	JOHN B. TREVOR
Ethnology of the Southwest,	ARCHER M. HUNTINGTON
Antarctic Exploration,	ARCHER M. HUNTINGTON
Woods and Forestry,	GIFFORD PINCHOT
Fishes and Marine Life,	CLEVELAND H. DODGE
Minerals and Mines,	JAMES DOUGLAS
Indians of the Plains,	ARCHIBALD ROGERS

The Committees are composed partly of Trustees, partly of other friends and patrons of the Museum, and partly of distinguished men of science attached to other institutions. It will be observed that each Committee is devoting itself, in consultation with the Director, to one or more of the exhibition halls of the future, so that the chairman and other members may have the pleasure and satisfaction of seeing some definite results of their labors.

## MUSEUM EXTENSION

The Museum has already entered upon a method of *Museum Extension* on a scale which reaches almost the entire school system of the City through the circulation of small traveling museums. Within its walls there has been established a *Children's Room*, which promises to become a more important feature as time goes on and which deserves a special endowment fund of \$25,000. We have also made a beginning in reaching the blind through our *Museum for the Blind*, the first of its kind to our knowledge.\*

The Trustees should now consider the advisability of establishing *Branch Museums in Manhattan and the Bronx*, which would hold the same relation to the parent Museum as the Branch Libraries do to the New York Public Library. For example, a Branch Museum might be placed on the east side of the City, in the center of a population eager for education and keenly appreciative both of the Branch Library and of the free Lecture System. Such an institution should be the gift of some special benefactor and philanthropist; it should be amply endowed so as not to be a tax on the parent

\* This Museum has received a munificent endowment since December 31, 1909.

institution; it should enjoy a maintenance fund from the City which would provide merely for its up-keep and administration, but not for its collections. The parent Museum could contribute, without sacrifice, many admirable educational exhibits from its duplicate series. Such a Branch, which might well be established in coöperation with our sister institution, the Metropolitan Museum of Art, would be a great force in the Americanization of the newcomers of all lands who are crowding to the east side of our City.

## I. ADMINISTRATION AND BUILDING

SCIENTIFIC STAFF.—Several changes have been made in the personnel of the scientific staff. Owing to advancing years and failing health, Professor R. P. Whitfield has been obliged to give up active work as Curator of Geology and Invertebrate Palæontology and has been retired as *Curator Emeritus*. Dr. Edmund Otis Hovey, Associate Curator of the department since 1901, has been promoted to the curatorship.

In the Department of Anthropology, Professor Marshall H. Saville has resigned his position as Honorary Curator of Mexican Archæology and the staff has been strengthened by the appointment of Dr. Pliny E. Goddard, formerly of the University of California, as an Associate Curator, and of Dr. Herbert J. Spinden, of Harvard University, as an Assistant Curator. Mr. Harlan I. Smith, who has held an assistant curatorship in the department for the past nine years, has been made an Associate Curator.

A Department of Ichthyology and Herpetology has been established during the year, with Dr. Bashford Dean as its head. The appointment of Dr. Dean is a nominal change, as he has been a member of the scientific staff since 1903.

Mr. Barnum Brown has been made Assistant Curator of Fossil Reptiles and Mr. Walter Granger Assistant Curator of Fossil Mammals.

Recently the Trustees have created a Department of Public Health, and through a coöperative arrangement with President Finley of the College of the City of New York, the services of Professor Charles-Edward Amory Winslow have been

secured as Curator. This department will have for its aim the demonstration of the relation between man and the lower organisms. Professor Winslow will not begin active work, however, until July, 1910.

**BUILDING.**—While the new wing on Columbus Avenue (the south section of the West Façade) was formally accepted last year by the City from the contractors, much work remained to be done in decorating and casing before the halls could be occupied. Application for funds for furnishing and equipping this section of the building was made to the Board of Estimate and Apportionment, and, in July, \$100,000 was appropriated for this work.

At the request of the Trustees, Commissioner Henry Smith directed that the Department of Parks pave the entrance roadway on Seventy-seventh Street with asphalt block. This work was done at the expense of the Park Department and was not a draft on the Museum funds.

The contract for the construction of the service roadway, to enter the Museum grounds from Columbus Avenue, was let on July 1, 1909, to the Atlanta Contracting Company, and operations were begun at once on this much needed improvement. At the close of the year good progress had been made and the work was nearing completion.

The mechanical workshops have been moved from the east wing to the more commodious quarters in the basement of the new west wing. These shops have been equipped with electric motors for running the machinery, new benches, steam box and lockers. While these quarters are considerably larger than the old shop, they are quite insufficient for all our mechanical work, and temporary shops have been provided in various parts of the building.

The repairs are no small item in a building of this size, and as time passes these will necessarily increase. This work alone has kept a large force of carpenters, painters and other mechanics continuously employed throughout the year.

The adoption of a graded system of wages for the employees has produced satisfactory results. The efficiency of the force of attendants has been further improved by the

establishing of a grade known as floor sergeants who are under the direction of a captain. Each sergeant is in charge of a floor and is held responsible for the condition of the exhibition halls, as well as for the conduct of the attendants under his supervision. Under this arrangement the men take a greater interest in their halls and the results are practical.

At our request the United States Post Office Department has placed a mail box in the vestibule of the building and collections are made hourly from nine till four.

## II. PUBLIC EDUCATION

MUSEUM EXTENSION TO THE SCHOOLS AND LIBRARIES.—The Museum extension to the schools and libraries is in charge of the Department of Public Instruction, which in future will be known as the Department of Public Education.

This department coöperates with the City Board of Education and expends a large sum annually without receiving any special appropriation therefor.

The usual requests for the Nature Study Collections have been received and filled promptly. The routine work of distributing and transferring the collections occupies the time of two messengers. During the year 435 cabinets have been in circulation and the schools supplied number 419. Data supplied by the teachers show that the number of pupils studying these collections during the year was 922,512, which is a greater number than has been recorded in any previous year, and is an indication of their value as a teaching adjunct.

Some of the suburban schools also have been supplied with these collections at a nominal rental.

The method of sending special loan collections to the public libraries, which was begun last year, has been continued during the present year. The collections have been prepared at the request, and with the assistance, of Misses Moore and Tyler of the Public Library staff, and include material illustrating life in the Arctic, and the habits and costumes of the Indians, the Chinese, the Filipinos, etc.

LECTURES TO SCHOOL CHILDREN.—Two courses of lectures, supplementing class-room work in geography and history,







CHILDREN'S ROOM

were arranged and delivered at the Museum during the fall and spring. The attendance at these lectures was 17,172.

**CHILDREN'S ROOM.**—Early in the year the room located near the main entrance on the second floor was opened for children. This room has been equipped with low tables and kindergarten chairs, and near by are children's books, modeling clay and tools. It is open regularly on Wednesdays and Saturdays, and children are encouraged to study, draw and model from the mounted and living specimens. As many as two hundred children have attended in one day. On Wednesday afternoons the class is held for the children of Members.

**ROOM FOR THE BLIND.**—The Branch Library at 83d Street and Amsterdam Avenue makes a specialty of books for the blind, and this fact suggested to the Museum authorities the idea of setting aside a room for the blind. Here are assembled objects of natural history, which can be handled without damage. These specimens are accompanied by special labels printed in raised letters. We are indebted to Miss Goldthwaite, who is in charge of the library for the blind, for many helpful suggestions and for the printing of the labels. Recent statistics show that there are 6,165 blind people in the State of New York, and this innovation of the Museum has met with the most emphatic approval.

In addition to the extension work, this department has charge of the photographic work of the Museum, which during the past year has reached large proportions.

**ASTRONOMY.**—In the future Museum it is evident that a hall devoted to the science of cosmology should be provided. The astronomical clock and representation of the solar system in the foyer have proved to be exhibits of exceptional interest.

In view of the public interest in Halley's Comet, a representation of its orbit has been placed in the foyer, showing its relation to the sun and the earth.

**ATTENDANCE.**—The total number of visitors for the year was 839,141, a figure which is greater than that of any previous year with the exception of 1908, when there was a phenomenal attendance at the Tuberculosis Exhibition. This increase is

especially gratifying when it is considered that the abolishing of the transfer system on the surface cars has unquestionably deprived many, who could not afford the extra carfare, from visiting the Museum.

The free lectures given in coöperation with the Board of Education, the New York Academy of Sciences and Affiliated Societies were attended by 48,988; Mrs. Roesler's lectures by 1,136 and those for school children by 20,165.

### LECTURE COURSES

The lectures delivered at the Museum during the year number 139. These include (1) a spring and fall course to Members; (2) a spring and fall course for the pupils of the public schools; (3) free lectures on public holidays; (4) a course of Jesup Lectures, given under the auspices of Columbia University; (5) four lectures on biology for the Normal College and High Schools of Manhattan; (6) special lectures in conjunction with the New York Academy of Sciences, Lincoln Centenary Committee, etc., and (7) three courses given in coöperation with the Board of Education of the City of New York.

The following lectures to Members were delivered by members of the scientific staff and others:

#### LECTURES TO MEMBERS

March	4.—Birds in Their Relation to Man.....	Frank M. Chapman
"	11.—The Conservation of Our Rivers and Lakes.....	Charles H. Townsend
"	18.—The Conservation of Natural Scenery in America....	J. Horace McFarland
"	25.—Conservation from Palisades to Adirondacks.....	Edward Hagan Hall
April	1.—Hunting with Canoe and Camera in New Brunswick..	William Lyman Underwood
November	18.—Alaska and the Exploration of Mt. McKinley.....	Herschel C. Parker
December	2.—Camera Adventure in the Wilds of Africa.....	A. Radclyffe Dugmore
"	9.—With Peary in the Arctic.....	Donald B. McMillan
"	16.—The Coast of Brittany and the Industries of the People.....	Hugh M. Smith

PUBLIC LECTURES ON HOLIDAYS

- New Year's Day, January 1.—Florida Bird Life (with moving pictures),  
Frank M. Chapman  
Washington's Birthday, February 22.—Food and Game Fishes of the  
Eastern United States—Habits and Methods of Cap-  
ture ..... Roy W. Miner  
Thanksgiving Day, November 25.—The Fiji Islanders and Other  
People of the South Seas..... Charles H. Townsend  
Christmas Day, December 25.—By Canoe to Hudson Bay... Alanson Skinner

LECTURES FOR CHILDREN

The lectures for pupils of the public schools and for the children of Members were continued during the spring, as follows:

- March 8 and 29.—New York City in Colonial Days..... R. W. Miner  
" 10 " 31.—Japan and Her People..... Louis Hussakof  
" 12 " April 16.—The Panama Canal.... E. O. Hovey\*  
" 15 " " 19.—Famous Rivers of the World..... Walter Granger  
" 17 " " 21.—Natural Wonders of Our Country.... R. W. Miner  
" 19 " " 23.—American Forests and Their Uses.. G. H. Sherwood  
" 22 " " 26.—Mediterranean Countries, Ancient and  
Modern..... Walter Granger  
" 24 " " 28.—The American Indian of To-day..... H. I. Smith  
" 26 " " 30.—Travels in the Western States..... Barnum Brown†

A fall course was given as follows:

- October 25 and November 15.—The Development of New York City,  
R. W. Miner  
" 27 " " 17.—Life in the Arctic Regions.....  
Mrs. A. L. Roesler  
" 29 " " 19.—American Forests and Their Uses...  
G. H. Sherwood  
November 1 " " 22.—Scenes in the British Isles.. Louis Hussakof  
" 3 " December 1.—Life Among Our Indians..... H. I. Smith  
" 5 " " 3.—Animals Helpful to Man..... R. W. Miner  
" 8 " " 6.—Mining Industries of the United  
States..... E. O. Hovey  
" 10 " " 8.—Animals Injurious to Man..... F. E. Lutz  
" 12 " " 10.—Travels in South America.. Louis Hussakof

\* On March 12, owing to the absence of Dr. Hovey, this lecture was delivered by Mr. R. C. Andrews.

† On March 26 and April 30, owing to the absence of Mr. Brown, this lecture was delivered by Mr. R. C. Andrews.

*Report of the President***COLUMBIA UNIVERSITY LECTURES***In coopération with the Museum*

A series of lectures on Light, arranged by Columbia University and begun in 1908, was continued as follows (Dr. Richard C. Maclaurin, lecturer):

- January 6.— VI. The Exact Laws of Reflection and Refraction and Their Bearing on the Construction of Optical Instruments  
 “ 13.— VII. Optical Properties of Crystals  
 “ 20.—VIII. The Principle of Interference and Its Explanation of Various Colour Phenomena  
 “ 27.— IX. The Measurement of Light Waves and the Theory of Diffraction  
 February 3.— X. Some Relations Between Light and Electricity

Four Lectures on Biology, arranged by the Biology Departments of the Normal College and the High Schools of Manhattan, given on Thursday afternoons :

- January 14 and May 20.—American Forests and Their Uses ..... George H. Sherwood  
 February 18.—Our Atlantic Fisheries..... Hermon C. Bumpus  
 March 18.—Public Health..... Josephine Baker  
 April 15.—Natural History of Animals..... Henry E. Crampton

**SPECIAL LECTURES**

Under the auspices of the New York Academy of Sciences

*In coopération with the Museum*

- February 4.—Austria and its Beauties..... Felix Leibinger  
 Under the auspices of the Lincoln Centenary Committee of the City of New York  
 February 12.—Abraham Lincoln..... W. W. Ellsworth

**BOARD OF EDUCATION LECTURES***In coopération with the Museum**Tuesday evenings***A Course of Eight Lectures on “Asia”**

- January 5.—The East and the West and Their Different Ideals, Ian C. Hannah  
 “ 12.—China's Everlasting Empire..... “  
 “ 19.—England's Eastern Empire..... “  
 “ 26.—The Russian March Across Asia ..... “  
 February 2.—Japan's Transformation..... “  
 “ 9.—America as an Asiatic Power ..... “  
 “ 16.—World Organization..... Mrs. Lucia Ames Mead  
 “ 23.—Mohammed and Mohammedanism..... Isya Joseph

A Course of Nine Lectures on Architecture

March	2.—Rome.....	A. D. F. Hamlin
"	9.—Constantinople .....	"
"	16.—Venice.....	"
"	23.—History of Architecture as seen in New York Buildings, Joseph M. Tilden	
"	30.—Paris.....	A. D. F. Hamlin
April	6.—London.....	"
"	13.—New York .....	"
"	20.—Florence, Cradle of the Renaissance.....	Francis M. Strickland
"	27.—Berlin, and Military Life in Germany.....	Henry Zick

A Course of Eleven Lectures on North America

October	5.—Uncle Sam's Farm.....	Charles S. Bullock
"	12.—The Pacific Northwest.....	Edward Russell Perry
"	19.—Northern California.....	Homer C. Bristol
"	26.—Southern California... ..	"
November	2.—The Historic Alamo City.....	R. Cornelius Raby
"	9.—The Yosemite Valley .....	Miss Mary V. Worstell
"	16.—The Canadian Rockies.....	Benjamin S. Comstock
"	23.—Across the New England States.....	Edward P. Crowell
"	30.—The Land of the Big Red Apple—Oregon .....	J. R. Lynch
December	7.—The White Hills .....	George Newton Cross
"	14.—The City of Washington.....	"

*Saturday Evenings*

A Course of Eight Lectures on Natural Science

January	9.—The Development of the Milk Industry... ..	Lafayette B. Mendel
"	16.—Adirondack Forest.....	James F. Whipple
"	23.—The Physiology of Growth.....	Lafayette B. Mendel

Three Lectures on "Forestry," given with the coöperation of the  
Forest Service, Department of Agriculture,  
Washington, D. C.

January	30.—Forests and Waters.....	William L. Hall
February	6.—National Forest Policy .....	H. A. Smith
"	13.—Conservation of Natural Resources.....	Overton W. Price
"	20.—The Life History of a Lake.....	Herbert E. Gregory
"	27.—Earthquakes.....	Cyrus C. Adams

A Course of Eight Lectures on Sociology

March	6.—The Man That is Down and Out.....	Orlando F. Lewis
"	13.—The Treatment of Prisoners.....	"
"	20.—Our Hospitals and Asylums.....	"
"	27.—Modern Ways of Helping Others.....	"

- April 3.—Child Labor in America .....Owen R. Lovejoy  
 " 10.—The Children's Court.....Ernest K. Coulter  
 " 17.—The Processes of American Government.....Franklin A. Rose  
 " 24.—The City Beautiful, or the Planning and Embellishment of Cities,  
 Arthur Alexander Stoughton

A Course of Eleven Lectures on "Inorganic Chemistry,"  
 by William L. Estabrooke, Ph.D.

- October 9.—Physical and Chemical Change  
 " 16.—Oxygen and Ozone  
 " 23.—Hydrogen and Hydrogen Peroxide  
 " 30.—Water  
 November 6.—Chlorine and Hydrochloric Acid  
 " 13.—Fluorine, Bromine and Iodine  
 " 20.—Nitrogen and Its Oxides; Nitric Acid and Ammonia  
 " 27.—Carbon and Some of Its Compounds  
 December 4.—Carbon Dioxide and Ventilation  
 " 11.—The Atmosphere  
 " 18.—Combustion and the Flame

### HOSPITALITY TO SCIENTIFIC SOCIETIES

Many are the requests that are received by the Museum from various scientific societies and organizations for the use of the lecture and conference rooms, and so far as it is consistent with the aims of the institution, these requests have been granted.

On February twelfth was held the celebration of the one hundredth anniversary of the birth of Charles Robert Darwin and the fiftieth anniversary of the publication of "The Origin of Species." At this time there was unveiled a bronze bust of Darwin, the work of Mr. William Couper and the gift of the New York Academy of Sciences. The presentation address was made by Mr. Charles Finney Cox, the Academy's president, and the bust was accepted on behalf of the Trustees of the Museum by President Henry Fairfield Osborn. The exercises were held in the Synoptic Hall, which, in view of the permanent installation of the bust and of the exhibit of the zoölogical material so closely associated with his name, was rededicated by the Trustees as the "Darwin Hall of Invertebrate Zoölogy."

Another gathering of note was the Twenty-seventh Stated Meeting of the American Ornithologists' Union, one of the

oldest scientific organizations in America. The members were the guests of the Museum from December sixth to the tenth, and reported a successful series of meetings.

Two special exhibits, which attracted many visitors and which were enjoyed by all, were the Annual Exhibition of the National Sweet Pea Association (held July 7 and 8) and the Annual Exhibition of the Horticultural Society of New York (held November 3 to 7). The latter occupied the foyer and the three adjoining halls, and the display was one of exceptional beauty. The attendance at this exhibition was more than 30,000.

The following is a complete list of the societies and organizations which were the guests of the Museum in 1909:

- American Bison Society
- American Ethnological Society
- American Ornithologists' Union
- American Psychological Association, New York Branch
- Audubon Society of the State of New York
- Brooklyn Entomological Society
- Century Association
- Charity Organization Society
- Geological Society of America
- Horticultural Society of New York
- Linnæan Society of New York
- Naples Table Association
- National Association of Audubon Societies for the Protection of Wild  
Birds and Animals
- National Sweet Pea Association
- New York Academy of Sciences
- New York Entomological Society
- New York Microscopical Society
- New York Mineralogical Club
- Palæontological Society
- Playground Association of America
- Torrey Botanical Club
- West Side Natural History Society

### III. EXPLORATIONS, COLLECTIONS AND EXHIBITIONS

EXPLORATIONS.—The field operations of the Museum, through its expeditions and field agents, have been quite as extensive as in former years. The funds appropriated by the



City cannot be used for the maintenance of these parties, and it is largely through the income from the bequest of Mr. Jesup that this work has been carried on. During the past year the Museum has had representatives in the following localities:

#### EXPLORATIONS BY MUSEUM PARTIES OR REPRESENTATIVES

##### *In United States*

ALASKA	MASSACHUSETTS	OHIO
ARIZONA	MICHIGAN	VIRGINIA
FLORIDA	MONTANA	WISCONSIN
MAINE	NEW MEXICO	WYOMING
	NORTH DAKOTA	

##### *In Foreign Countries*

<i>Arctic America</i>		<i>Canada</i>
ELLESMERE LAND		JAMES BAY
GREENLAND		QUEBEC
SOUTHAMPTON ISLAND		ONTARIO
BRITISH COLUMBIA	INDIA	PHILIPPINE ISLANDS
BRITISH EAST AFRICA	JAPAN	SAMOA
CELEBES	KOREA	TAHITI
EGYPT	MEXICO	TRINIDAD
HAWAII	NEW ZEALAND	VENEZUELA
	NICARAGUA	

#### MINERALS

DEPARTMENT OF MINERALOGY.—The Bement Collection of Minerals, presented to the Museum several years ago by Mr. J. Pierpont Morgan, is so extensive that cataloguing it in an adequate manner is no small task. The special card catalogue of this collection is nearing completion. More than 16,000 cards have been written, and less than 1,000 specimens remain to be identified.

The income from the Bruce Fund has again been usefully applied toward enriching the collections, and fifty-five specimens, either quite new to the collections, or important for their possession of new features or great beauty, have been added in this way.

Owing to limited space, an appropriate installation of the minerals cannot now be made, but it is expected that this will be remedied when the collections are rearranged in the new hall in the west wing.





**A FLORIDA ROOKERY.** Reproduced from studies made by Mr. Frank M. Chapman in March, 1908, at Cuthbert Rookery in the great Mangrove Swamp south of the Everglades. (North American Ornithology Fund)

## MAMMALS AND BIRDS

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.—Important additions have been made to the collections of both mammals and birds. These include mammals from Nicaragua, the Philippine Islands and Arctic America, and birds from Japan, Formosa and Nicaragua.

The most important collection received during the year includes a large series of musk-oxen, a still larger series of the Peary caribou, a number of walrus skulls and scalps, a series of narwhal tusks, and a large number of lemmings and foetal specimens of seals, walrus, narwhal, arctic fox and lemming in alcohol. All of the above was obtained by Commander Robert E. Peary in northern Ellesmere Land and Greenland and turned over to the Museum by the Peary Arctic Club. Other desirable additions were several antelope and specimens of big game from British East Africa, the gift of Messrs. E. Hubert Litchfield, Bayard Dominick, Jr., and Henry Sampson, Jr.

Several mammals and birds in the flesh have been received from the New York Zoölogical Society and the Central Park Menagerie, and we wish to acknowledge these.

The mammals acquired during the year number 625; the birds, 1,616 specimens.

The department has been fairly well represented in the field. Mr. Roy C. Andrews of the Museum staff made a trip early in the year to Tadousac, Quebec, to obtain specimens of the smaller cetaceans, securing three skeletons and a series of skulls of the white whale. Later he was sent to the Philippine Islands to join the staff of the steamer "Albatross" of the United States Fisheries Bureau, to make collections of natural history material in the interest of the Museum.

Mr. R. M. Anderson has continued his explorations in Arctic America in connection with Mr. V. Stefánsson, but as yet no definite report of his work has been received. Mr. Anderson is expected to come out in the summer of 1910.

Mr. M. A. Carriker, Jr., who has planned a long collecting trip to South America, and is now at work in Venezuela, has been commissioned to procure mammal materials for us.

A small instalment from the island of Trinidad has already been received.

Mr. W. B. Richardson has finished his work for the Museum in Nicaragua, having sent us during the year 177 mammals and 753 birds.

By far the most important and the best equipped expedition was sent into the Belgian Colony of the Congo under the direction of Messrs. Herbert Lang and James Chapin. It is the purpose of this expedition to make a biological survey of the Congo, paying particular attention to the smaller and less conspicuous animals. Owing to the very cordial relations existing between the Museum and the Belgian officials, our representatives have been able to secure unusual concessions, and everything points to very successful results. Messrs. Lang and Chapin entered the Congo in June, and on August 14 were at Stanleyville, whence they were about to journey into the Upper Ituri district for an absence of six months.

The entire expense of this expedition has been borne by several friends of the Museum, as noted in the financial statement, and the Belgian government contributed \$1,329.13 toward the work.

An event of the year was the opening of the west side of the gallery of Habitat Bird Groups. This was signalized by a reception to the patrons and bird lovers, which was followed by a special reception to Members. Both of these were well attended.

These groups show in a striking manner the home life of typical North American birds in their natural surroundings, and their preparation has been made possible through the generous contributions of the subscribers to the North American Ornithology Fund. The groups furnished during the year include the Bahama Island, the Cuthbert Rookery, the Golden Eagle, the Ptarmigan, the Klamath Lake, the Sage Hen, the Wild Goose, the Grebe, and, finally, the Loon and the Turkey Buzzard, which complete this important series.

The wide-spread interest in this method of presenting bird life to the public induced a number of friends of the Museum to subscribe to a second bird group fund, and under this grant a series of seasonal bird groups is being prepared. Mr. Chapman has already undertaken some of the necessary field work.

The routine work of the department has progressed. Fire-proof storage cases of superior design have been devised and constructed for the skins of large mammals, and the study collection has been in part rearranged.

In addition to his department duties, the Curator has continued the editorship of the *Bulletin*, a task which absorbs more and more of his time.

## EXTINCT MAMMALS AND BIRDS

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.—The activities of this department in the field were limited to two expeditions, both of which were very successful: one to the Laramie Cretaceous of Montana, under the direction of Mr. Barnum Brown; the other to Wyoming for exploration of the Tertiary formations of the Wind River Basin, under Mr. Walter Granger.

Among Mr. Brown's finds, especially noteworthy are a nearly complete skeleton and a complete skull and jaws of the gigantic horned dinosaurs or ceratopsians, and portions of three skeletons of a new orthopodous dinosaur.

After concluding the work in Montana, Mr. Brown proceeded to Didsbury, Alberta, Canada, and made a reconnaissance in this region, where he found abundant fossil remains and a fertile field for future work.

In Wyoming, Mr. Granger and his party explored the fossil beds of the Beaver Divide, a region which apparently had not previously been worked by collectors, the Lost Cabin region, Muddy Creek on the Shoshone Reservation and the Crowheart Butte. The material he obtained consists chiefly of small mammals, and, while not of a character to make showy exhibition specimens, it is especially valuable from a scientific standpoint. The geologic results of this expedition are especially noteworthy.

Considerable attention has been given by Dr. Matthew to perfecting the catalogue of the department material. Especially has he devoted his time to the preparation of a catalogue of the published specimens.

Pending the assignment of a new exhibition hall, few changes have been made in the exhibition series, the present congested condition of the halls making new additions impracticable. Several specimens have been or are being mounted for exhibition. Among these mention may be made of skeletons of three of the ancient and peculiar reptiles and amphibians of the Permian Period, *Diopseus*, *Diadectes*, *Eryops*, which are among the oldest of large land animals; a skeleton of *Camptosaurus*, a small herbivorous dinosaur; a skeleton of *Tyrannosaurus*, the gigantic carnivorous dinosaur; a skeleton of *Hesperornis*, the extinct toothed diving bird of the Cretaceous seas, and a *Trachodon* skeleton with skin. This last, perhaps, is the most important acquisition of the year. It is absolutely unique, showing the character of the body covering of this giant dinosaur. It was found in Wyoming in 1908 by Mr. Charles H. Sternberg, and is the gift of Mrs. Morris K. Jesup.

Several desirable additions have been made through exchange with other institutions and negotiations are pending which will greatly increase our collections.

The staff has displayed its usual activity in research, as evidenced by the papers published, which are enumerated under the section "Publications."

## LIVING AND EXTINCT REPTILES, BATRACHIANS AND FISHES

DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY.—Until lately the reptiles, fishes and batrachians have been cared for by the Department of Invertebrate Zoölogy, but realizing the need of developing this branch of the Museum's collections, the Trustees created a Department of Ichthyology and Herpetology, which was organized in July and Dr. Bashford Dean of Columbia University, who had been Curator of the Division of Fossil Fishes of the Museum's Department of Vertebrate Palæontology since 1903, was appointed Curator. Dr. Louis Hussakof, Assistant Curator of Fossil Fishes, Miss Mary C. Dickerson, Assistant on living reptiles and batrachians, and Mr. John Treadwell Nichols, Assistant on living fishes, constitute the staff of the new department.







A PLESIOSAUR OF EXTINCT MARINE REPTILE OF THE JURASSIC PERIOD (*Cryptoclidus oxoniensis*), from the Oxford Clays, Peterborough, England. Exchange from British Museum, 1902. Restored and mounted, 1909

The study collections have been examined, recatalogued and inventoried. This inventory shows in round numbers the following specimens and species:

	Number of specimens	Number of species
Fishes (living).....	2,100	600
Fishes (fossil) .....	8,900	800
Amphibians.....	1,775	150
Reptiles .....	4,500	550

The department is fortunate in having a generous fund at its disposal through the endowment of Mr. Cleveland H. Dodge. All important accessions are due to this fund.

In the Hall of Fossil Fishes the acquisition of new material has made desirable certain readjustments in the exhibition series. Above the main entrance a restoration of the jaws of a gigantic shark, *Carcharodon megalodon*, has been displayed. An innovation in the installation is the introduction of an "aquarium" containing a dozen or more models of fishes illustrating the fossils in the adjoining cases. The types represented occur in a single horizon and in a single locality in the Old Red Sandstone of Scotland.

In the Gallery of Recent Fishes few changes have been made. These consist mainly in the introduction of characteristic forms which hitherto have not been represented.

Progress has been made in the preparation of a large bullfrog habitat group by Mr. Dwight Franklin, designed to epitomize the activities and economics of this, our most typical, amphibian.

Collecting has been carried on in Puget Sound by Dr. Edwin C. Starks, under a grant from the Dodge Fund; in North Carolina, by Dr. Hussakof and Mr. Russell J. Coles; on Long Island, by Mr. Nichols, and a well-equipped expedition, under the direction of the Messrs. Ernesto and Alessandro Fabbri, has begun its collecting work among the Florida reefs, on the yacht "Tekla." Almost the entire equipment has been provided by the Messrs. Fabbri, who have also generously offered their vessel and their services for the furtherance of the scientific work of this department.

**MODERN INVERTEBRATES—DARWIN HALL**

In the past the invertebrates have been in the custody of several departments which were not intimately related. The appointment of Dr. Henry E. Crampton as Curator of the Department, and the addition of Doctors Lutz, Petrunkevitch and Treadwell to the scientific staff made a reorganization desirable which would bring all of the invertebrate material in one department. The previously independent Department of Entomology was fused with this department and Mr. William Beutenmüller was made Associate Curator of Lepidoptera. Later Mr. L. P. Gratacap was made Curator of Mollusca. By these changes the insects and molluscs have been brought in closer correlation with those of the other invertebrate groups. For some years the lower vertebrates, including reptiles, batrachians and fishes, have been in the charge of this department; now, however, they have been transferred to the newly established Department of Ichthyology and Herpetology.

The exhibition material in the Darwin Hall has received careful attention, and many new installations have been added to the exhibition. These include a Bahama Echinoderm Group showing an association of echinoderms and other invertebrates in the neighborhood of a coral reef; a Bahama Sponge Crab Group centering about an association of the sponge crab with a large reef sponge; a Bahama Oyster and Mangrove Crab Group, and the Cold Spring Harbor Group showing an association of mussels, fiddler crabs, oysters and other invertebrates commonly found together on the Long Island shores.

The preparators have also completed about twenty models in glass and wax, including specimens of protozoa, polyps, worms and snails. The models illustrate the form and anatomical structure of these organisms which cannot well be illustrated by natural specimens. Other models are in process of preparation.

**HALL OF LOCAL INSECTS AND INSECT BIOLOGY**

Several changes have been made in the Insect Hall. The taxonomic collection of local insects has been moved from





COLLECTION OF LOCAL INSECTS. Under the joint custody of the New York Entomological Society and the Museum

open cases into cabinets where it is available to the public on request, and the Hoffman Collection of Butterflies has been withdrawn from exhibition because many of the beautiful specimens were deteriorating in the strong light. It has been decided to make this the Hall of Local Insects and Insect Biology.

One side of the hall has been converted into a room where visitors are given every facility for serious study of the local insects. The remaining space is devoted to exhibits which aim to give a fairly thorough course in theoretical and applied entomology. The displays are being arranged according to problems rather than according to taxonomic divisions. For example, one case is being devoted to household insects, another to aquatic insects, one to the geographical distribution of insects, and so on. In the section concerned with social insects, a group of "fungus growing ants" has been installed, and a large group of "mound building ants" is under construction. This is merely applying to insects the method long used with mammals and birds, namely, that of putting the animals on exhibition in natural positions instead of mounting them on pins.

The New York Entomological Society, with the coöperation of Dr. Lutz, has taken an especial interest in the development of the collection of local insects. This collection has been placed in the custody of the Society and has been installed in a section of the Hall of Local Insects, which is also used by the Society for its meetings,—an arrangement that is mutually advantageous.

The general insect collections have been temporarily continued in charge of Mr. Beutenmüller. During the year 2,800 specimens of Lepidoptera and over 1,200 insects of other orders have been mounted. There are still on hand about 20,000 unmounted specimens of Lepidoptera. The entire collection of colored-winged moths has been arranged and labeled. This collection is an exceedingly valuable one, and is the best extant so far as North American species are concerned.

On account of the extensive reorganization of this department, the scientific work has been more or less interrupted,

but considerable progress has been made by the members of the staff in their respective investigations.

The department has been well represented in the field. Dr. Crampton visited several groups of islands of the South Pacific in order to extend his studies upon the evolution of terrestrial snails. Among the localities visited were the Society Islands, the Cook Islands, New Zealand, Tonga Islands, Samoa, Fiji, and Hawaii. In addition to zoölogical collections, Dr. Crampton secured considerable anthropological material.

A trip to Mexico and Texas was undertaken by Dr. Alexander Petrunkevitch during the months of July and August, in order to collect spiders and to investigate their habits. Dr. Petrunkevitch brought back with him a valuable collection comprising many fine specimens not only of spiders but of other invertebrates and also of reptiles and amphibians. His collections were made in spite of extremely adverse conditions caused by unexpected floods.

An expedition to Dry Tortugas was undertaken by Prof. Aaron S. Treadwell during the summer months. Professor Treadwell secured a valuable series of the annulates of these islands.

Mr. Miner spent the months of July and August in the Woods Hole region collecting invertebrates for the Museum's study collections and gathering data for models and groups for the exhibition series. With the aid of several members of the preparation staff many sketches of living invertebrates were secured, and a large collection of preserved material was brought back to the Museum.

The fifth expedition was to the vicinity of the Ashokan Watershed, under the direction of Professor Treadwell, who undertook the work of making a biological survey of that region. The funds for financing the expedition were contributed by Mr. S. D. Coykendall.

### EXTINCT INVERTEBRATES

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALEONTOLOGY.—It is with regret that we announce the retirement at the end of the year of Professor R. P. Whitfield from active

service in the department. Advancing age and continued ill-health have made it necessary for him to give up his work, and the Trustees have taken pleasure in appointing him *Curator Emeritus* of the Department. Professor Whitfield came to the Museum in 1877, and during this period of more than thirty-two years he has labored efficiently in developing the Museum's collection of fossil invertebrates.

Dr. Edmund Otis Hovey, who has been in the department for sixteen years, first as Assistant Curator and later as Associate Curator, has been promoted to the curatorship, the appointment dating from January 1, 1910.

During the past year the collections have been enriched through the purchase of a slab about five feet square showing sixty-eight bodies (with arms) of the crinoid *Uintacrinus socialis* and a giant lamellibranch shell, *Inoceramus platinus* (?), more than four feet across. Both of these specimens are from the Niobrara Cretaceous beds of Kansas. Another important purchase was that of a series of Cretaceous fossils from the Mt. Lebanon district of Syria.

The geological material of the department has been under the immediate care of the Associate Curator, Dr. Edmund Otis Hovey. Under his direction the routine work of accessioning and cataloguing the material received has been accomplished. In addition to his regular department work, Dr. Hovey has continued his editorship of the *Museum Journal* and the Guide Leaflets, in which he has been ably assisted by Miss Mary C. Dickerson.

Among the material acquired during the year, first place must be given to the meteorites. Although the three Cape York meteorites (one of which is the largest known), or the "Peary" meteorites, as they are sometimes called, have been on deposit in the Museum for several years, it was not until 1909 that their purchase was finally concluded and that these unique specimens actually became the property of the Museum. This was accomplished largely through the instrumentality and generosity of Mrs. Morris K. Jesup.

The acquisition of three such specimens is noteworthy, but in addition the Museum has acquired by purchase a twenty-pound fragment (the largest known) of the Modoc stone



meteorite, and the Guffey iron meteorite weighing 682 pounds. The last is new to science, and we have all that is known to be in existence of the specimen. The addition of these five specimens gives the Museum one of the largest collections of meteorites in the world, and one which can never be duplicated.

Other gifts of note are a series of ores illustrating the copper and silver deposits of the Calumet and Hecla Mines, donated by the Calumet and Hecla Mines Company, and an unusually well preserved large fossilized tree stump from an abandoned anthracite coal mine under Scranton, Pennsylvania, received from the Delaware, Lackawanna and Western Coal Company. Through the financial aid of Dr. C. E. Slocum, of Defiance, Ohio, and with the coöperation of the Kelley's Island Lime and Transport Company, the Museum has secured two blocks of limestone 8' x 10' and 4' x 4' respectively, from Kelley's Island, Ohio, the surface of each showing deep and perfect glacial grooves as well as glacial polishing.

### LIVING AND EXTINCT RACES OF MEN

DEPARTMENT OF ANTHROPOLOGY.—Special attention has been given to the material in the exhibition halls. In the Northwest Coast Hall the collections have been rearranged in a geographical sequence, so that the visitor in passing from south to north through the hall encounters the tribes as if he were actually traveling from south to north in the country. Four new paintings of Arctic scenes by Mr. F. W. Stokes have been added to the Arctic section of this hall, thereby completing the series of mural paintings provided through the courtesy of Mr. Arthur Curtiss James.

In connection with the Hudson-Fulton Celebration, a special exhibition of the archæology and ethnology of Greater New York and the Hudson Valley was installed in the west hall on the first floor, which it is intended shall remain as a permanent part of the North American type series.

The large ethnological collection from the Fiji Islands, the gift of Mrs. Morris K. Jesup, has been catalogued.

Under the direction of Dr. R. H. Lowie, progress has been made in the preparation of the African Hall, for which





**KNOWLES, OKLAHOMA, METEORITE.** A nickel-iron meteorite weighing 355 pounds. Length 18 inches, height 14 inches. Found in 1905 near Knowles, Oklahoma

decorative panels, representing African scenes, have been painted by Mr. Albert Operti. In this hall the arrangement will be geographical.

The scientific staff of the department has been augmented by the appointment of Dr. Pliny E. Goddard as an Associate Curator and of Dr. Herbert J. Spinden as an Assistant Curator. Dr. Goddard comes from the University of California and is unusually well equipped to take up ethnological work.

The department has been well represented in the field, nine parties having been actively at work for longer or shorter periods.

Under the special patronage of Mr. Archer M. Huntington and with the advice of the Committee on Primitive Peoples of the Southwest, of which Mr. Huntington is Chairman, the Museum is carrying on extensive exploration and investigation among the Indians of the Southwestern States. This work is being done by Doctors Goddard and Spinden. Dr. Goddard is devoting himself to the nomadic tribes of the area, a work for which he is especially well equipped, and Dr. Spinden is at work among the Pueblo Indians. The culture of these people is extremely complex and in consequence offers an inviting field. Both Dr. Goddard and Dr. Spinden have secured collections which make valuable additions to our exhibition series.

In June Mr. Harlan I. Smith left for the North Pacific coast of America, returning in September. He resumed his archæological reconnaissance, carrying it northward from the northern end of Vancouver Island as far as Skagway, Alaska. He located ancient village sites, shell-heaps and petroglyphs, and secured many photographs. Mr. Smith was accompanied by Mr. Will S. Taylor, a mural artist, who made color studies in oil of the Indians and their environment, which will be the basis of the mural decorations that Mr. Taylor has been commissioned to paint for the Northwest Coast Hall.

During the summer months Mr. Alanson Skinner visited the Northern Ojibway and Eastern Cree of the region south of Hudson Bay where he obtained many notes and specimens. Mr. Skinner also visited the Stockbridge, Oneida, Menominee and Winnebago of Wisconsin, obtaining from the latter an

extensive collection, especially rich in household utensils and costumes.

Mr. Gilbert L. Wilson made a second visit to the surviving Hidatsa and Mandan Indians in North Dakota to continue his ethnological research. He reports this work especially successful.

Captain George Comer has returned from the Arctic with a good collection from ancient village sites on Southampton Island and the northwestern shores of Hudson Bay.

The Curator himself has visited Doctors Goddard and Spinden in the field and made a general survey of the southwestern region of the United States.

Messrs. Stefánsson and Anderson have continued their work along the shores of the Beaufort Sea, but the report of their work has not been received.

The scientific publications have kept pace with the explorations and investigations. An extra volume of the *Anthropological Papers* has been issued, besides several other papers in Vol. II. The contributors have been Doctors Wissler and Lowie, and Messrs. Skinner, Finch, Bolton, Harrington, Schrabisch and Speck.

Among the accessions, mention should be made of a Hawaiian feather cape, the gift of Mr. George S. Bowdoin, and the Starr Philippine Collection, acquired by purchase, consisting of specimens of weapons, household utensils, fishing and hunting implements, clothing and ceremonial objects.

Under an agreement with the War Department, the Museum prepared the Government's Philippine Exhibit at the Alaska-Yukon-Pacific Exposition. The material used for this purpose was part of the collection acquired at St. Louis. The installation was first made in the Philippine Hall of the Museum and later was reassembled at Seattle.

## PHYSIOLOGY

DEPARTMENT OF PHYSIOLOGY.—The preparation of the osteological specimens for the Museum falls largely on this department.

For cleaning small skulls and skeletons, the digestion method has proved so effective that it has been possible to

preserve material which it would have been necessary to discard if the grosser methods of maceration had been used.

During the year, 2,262 skulls, 75 skeletons, 16 sterna, 93 sets of leg bones and the appendages of four birds have been prepared for exhibition or study purposes. The most important among these are the skeletons of one giraffe, two whales, one blackfish, one rhinoceros and one goose-fish.

In addition to the regular work of the department, a considerable portion of the assistant's time has been occupied in the numbering, cataloguing and assorting of specimens in the Department of Mammalogy.

## WOODS AND FORESTRY

With the approval of the Committee on Woods and Forestry, of which the Honorable Gifford Pinchot is Chairman, the Jesup Collection of North American Woods is being rearranged and installed in a way to bring out more clearly the classification of trees, their relationship and their economic uses.

## THE LIBRARY

DEPARTMENT OF BOOKS AND PUBLICATIONS.—It is gratifying to note the progress made in the growth and development of the library. As stated in an earlier report, the purpose of the Curator is to build up a special library of natural science, and therefore no effort is made to secure books not germane to the work and research of a museum of natural history. More and more is our library being recognized by workers in science as the centre where such publications may be consulted. During the year the following new accessions have been received: bound volumes, 1,359; unbound volumes, 632; numbers, 6,369, and pamphlets, 1,495. The working library at the close of 1909 numbered volumes 40,000 and pamphlets 20,000.

Noteworthy gifts have been received from Miss Grace H. Dodge, Prince Ludwig Salvator, Messrs. Anson W. Hard, William G. DeWitt and J. Pierpont Morgan and Professor Ernst Haeckel. The bibliographic catalogue has been increased by the intercalation of 12,706 cards received from

the *Concilium Bibliographicum*, and a like number has been distributed in the series on deposit.

## PUBLICATIONS

Scientific research has been carried on extensively during the past year, the sum of \$16,777.01 having been expended on the publication of the results.

A full list of the scientific publications of the Museum issued in 1909, as received by the Curator for distribution, follows:

### DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY

#### *Bulletin*, Volume XXVI

W. J. Sinclair. "The Washakie, a Volcanic Ash Formation." (Pages 25-27.)

### DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

#### *Bulletin*, Volume XXVI

J. A. Allen. "Mammals from British East Africa. Collected by the Tjäder Expedition of 1906." (Pages 147-175, with 10 text figures.)

J. A. Allen. "The White Bear of Southwestern British Columbia." (Pages 233-238, with 4 text figures.)

J. A. Allen. "Further Notes on Mammals from the Island of Hainan, China." (Pages 239-242.)

J. A. Allen. "Mammals from Shen-si Province, China." (Pages 425-430.)

Roy C. Andrews. "Observations on the Habits of the Finback and Humpback Whales of the Eastern North Pacific." (Pages 213-226, plates xxx-xl.)

Roy C. Andrews. "Further Notes on *Eubalena glacialis* (Bonn.)." (Pages 273-275, plates xli-l.)

D. G. Elliot. "Descriptions of Apparently a New Species and Subspecies of *Cebus*, with Remarks on the Nomenclature of Linnæus's *Simia apella* and *Simia capucina*." (Pages 227-231.)

John Treadwell Nichols. "A Note on the Dolphins (*Coryphæna equisetis* and *Coryphæna hippurus*)." (Pages 131-133, with 2 text figures.)

L. S. Quackenbush. "Notes on Alaskan Mammoth Expeditions of 1907 and 1908." (Pages 87-130, plates xvii-xxv.)

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

*Bulletin*, Volume XXVI

- Walter Granger. "Faunal Horizons of the Washakie Formation of Southern Wyoming." (Pages 13-24, plates ii-vi, with 3 text figures.)
- A. Hermann. "Modern Laboratory Methods in Vertebrate Palæontology." (Pages 283-332, plates lii-lvii, with 18 text figures.)
- W. D. Matthew. "Observations upon the Genus *Ancodon*." (Pages 1-8.)
- W. D. Matthew and Harold J. Cook. "A Pliocene Fauna from Western Nebraska." (Pages 361-414, with 27 text figures.)
- H. F. Osborn. "New Carnivorous Mammals from the Fayûm Oligocene, Egypt." (Pages 415-424, with 9 text figures.)

*Memoirs*, Volume IX, Part VI

- W. D. Matthew. "The Carnivora and Insectivora of the Bridger Basin, Middle Eocene." (Pages 289-567, plates xlii-liv, with 118 text figures.)

DEPARTMENT OF ANTHROPOLOGY

*Anthropological Papers*, Volume II

- Robert H. Lowie. "The Northern Shoshone." (Pages 165-306, plate 1, with 20 text figures.)
- Clark Wissler. "Notes on New Collections." (Pages 307-364, plates ii-xxiii, with 23 text figures.)

*Anthropological Papers*, Volume III

- Reginald Pelham Bolton. "The Indians of Washington Heights." (Pages 77-112, plates xiii-xvii, with 6 text figures.)
- James K. Finch. "Aboriginal Remains on Manhattan Island." (Pages 65-76.)
- M. R. Harrington. "The Rock-Shelters of Armonk, New York." (Pages 125-140, plates xviii-xx, with 7 text figures.)
- M. R. Harrington. "Ancient Shell Heaps near New York City." (Pages 169-182, with 3 text figures.)
- Max Schrabisch. "Indian Rock-Shelters in Northern New Jersey and Southern New York." (Pages 141-168.)
- Alanson Skinner. "The Lenapé Indians of Staten Island." (Pages 3-64, plates i-xii, with 5 text figures and 1 map.)
- Alanson Skinner. "Archæology of Manhattan Island." (Pages 113-124, with 9 text figures.)
- Alanson Skinner. "Archæology of the New York Coastal Algonkin." (Pages 213-236, with 6 text figures.)
- F. G. Speck. "Notes on the Mohegan and Niantic Indians." (Pages 183-212, plates xxi-xxiv, with 4 text figures.)



*Report of the President**Anthropological Papers*, Volume IV

Robert H. Lowie. "The Assiniboine." (Pages 1-270, plates i-iii, with 17 text figures.)

*Memoirs*, Volume IV, Part VII

James Teit. "The Shuswap." (Pages 443-789, plates xiii-xiv, with 82 text figures.)

## Volume VIII, Part II

Franz Boas. "The Kwakiutl of Vancouver Island." (Pages 301-522, plates xxvii-lii, with 142 text figures.)

## Volume XI, Part III

W. Bogoras. "The Chukchee: Social Organization." (Pages 537-733, plate xxxv, with 1 text figure.)

## DEPARTMENT OF INVERTEBRATE ZOOLOGY

*Bulletin*, Volume XXVI

William Beutenmüller. "The Species of *Holcaspis* and their Galls." (Pages 29-46, plates vii-ix.)

William Beutenmüller. "The Species of *Amphibolips* and their Galls." (Pages 47-66, plates x-xv.)

William Beutenmüller. "The North American Species of *Diastrophus* and their Galls." (Pages 135-146, plates xxvi-xxix.)

William Beutenmüller. "The Species of *Biorhiza*, *Philonix* and Allied Genera, and their Galls." (Pages 243-256, plates xli-xliii.)

William Beutenmüller. "Some North American Cynipidae and their Galls." (Pages 277-282, plate li.)

T. D. A. Cockerell. "Fossil Diptera from Florissant, Colorado." (Pages 9-12, plate i, with 1 text figure.)

T. D. A. Cockerell. "Fossil Insects from Florissant, Colorado." (Pages 67-76, plate xvi.)

T. D. A. Cockerell. "A Catalogue of the Generic Names Based on American Insects and Arachnids from the Tertiary Rocks, with Indications of the Type Species." (Pages 77-86.)

Roy L. Moodie. "New or Little Known Forms of Carboniferous Amphibia in The American Museum of Natural History." (Pages 347-358, plates lviii-lxv, with 2 text figures.)

James A. G. Rehn. "A Contribution to the Knowledge of the Orthoptera of Sumatra." (Pages 177-212, with 31 text figures.)

Aaron L. Treadwell. "*Haplosyllis cephalata* as an Ectoparasite." (Pages 359-360, with 2 text figures.)

William Morton Wheeler. "Ants of Formosa and the Philippines." (Pages 333-346.)





**TURKEY VULTURE—TURKEY BUZZARD.** Reproduced from studies made by Mr. Frank M. Chapman in May, 1909, on and near Plummer Island, in the Potomac River, ten miles north of Washington. (North American Ornithology Fund)

SPECIAL PUBLICATION

Leonard Worcester Williams. "The Anatomy of the Common Squid."  
(Pages 1-87, plates i-iii, with 16 text figures.)

DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY

*Bulletin*, Volume XXVI

L. Hussakof. "A New Goblin Shark, *Scapanorhynchus jordani*, from Japan." (Pages 257-262, plates xliv, with 3 text figures.)

L. Hussakof. "The Systematic Relationships of Certain American Arthrodi-  
res." (Pages 263-272, plate xlv, with 8 text figures.)

*Memoirs*, Volume IX, Part V

Bashford Dean. "Studies on Fossil Fishes (Sharks, Chimæroids and Arthro-  
di-  
res)." (Pages 209-287, plates xxvi-xli, with 65 text figures.)

III. MEMBERSHIP

The receipts from membership are an important item in the Museum's income and continuous efforts are made to secure new members. During the past year the results have been especially gratifying.

The new Members number 348, and as the loss through death and resignation is 114, the net gain is 234. It is a pleasure to record that this is the largest number added during a single year in the Museum's history, an indication of the increased interest in the work of the institution.

On December 31, 1909, the total membership was 2,382, divided into classes as follows: Patrons, 103; Fellows, 41; Honorary Fellows, 2; Life Members, 427; Sustaining Members, 17; Annual Members, 1,792.

NEW MEMBERS

The following persons were elected Patrons:

MRS. ANDREW CARNEGIE	JAMES DOUGLAS
THOMAS DE WITT CUYLER	GEORGE J. GOULD
W. K. VANDERBILT	

The following persons were elected Fellows:

MRS. HENRY O. HAVEMEYER \*MISS CAROLINE PHELPS STOKES  
MISS OLIVIA E. PHELPS STOKES

BARON LUDOVIC MONCHEUR was elected an Honorary Fellow.

\* Deceased

The following persons were elected Life Members:

DR. JOHN HENDLEY BARNHART	JAMES MCLEAN
MRS. EMMONS BLAINE	EDWARD C. MOORE, JR.
W. B. BOURN	VICTOR MORAWETZ
GEORGE W. BRACKENRIDGE	MISS F. T. MORGAN
CHARLES LYMAN BRINSMADE	HENRY S. MORGAN
S. B. CHAPIN	MISS JANE N. MORGAN
SAMUEL POMEROY COLT	MRS. J. PIERPONT MORGAN, JR.
R. R. CORNELL	J. S. MORGAN, JR.
MRS. DAVIES COXE	DUDLEY OLCOTT, 2d
WILLIAM R. CRAIG	MRS. JOHN E. PARSONS
THOMAS DE WITT CUYLER	FRANK E. PEABODY
WILLIAM T. DAVIS	DR. CHARLES B. PENROSE
LEWIS L. DELAFIELD	GEORGE D. PRATT
WILLIAM G. DE WITT	FREDERICK T. PROCTOR
DR. CARROLL DUNHAM	NORMAN B. REAM
A. F. ESTABROOK	JOHN A. ROEBLING
ALESSANDRO FABBRI	J. SANFORD SALTUS
DANIEL B. FEARING	ARCHDUKE LUDWIG SALVATOR
CHILDS FRICK	EDWARD SHEARSON
GEORGE SCOTT GRAHAM	ALANSON SKINNER
T. A. GRIFFIN	FRANCIS SKINNER
J. HORACE HARDING	MRS. E. A. SLAVEN
MRS. EDWARD S. HARKNESS	DR. HUGH M. SMITH
MRS. W. L. HARKNESS	BYAM K. STEVENS
FREDERIC DELANO HITCH	CHARLES CHAUNCEY STILLMAN
JOHN HUBBARD	FREDERICK STURGES
H. E. HUNTINGTON	MISS P. C. SWORDS
KARL HUTTER	MISS ANNE THOMSON
M. R. JACOBUS	FREDERICK T. VAN BEUREN
O. G. JENNINGS	F. W. VANDERBILT
MRS. OLIVER G. JENNINGS	BAREND VAN GERBIG
MRS. JAMES R. JESUP	ALEXANDER WALKER
MRS. JOHN INNES KANE	JAMES N. WALLACE
*JOHN S. KENNEDY	MRS. SIDNEY WEBSTER
NATHANIEL T. KIDDER	GEORGE PEABODY WETMORE
MRS. SAMUEL LAWRENCE	JOHN J. WILLIAMS
GOODHUE LIVINGSTON	HENRY R. WOLCOTT
WILLIAM G. LOW	ROBERT S. WOODWARD

\* Deceased

The following persons have become Sustaining Members:

H. D. BABCOCK	WALTER C. HUBBARD
MRS. D. C. BLAIR	MRS. CLARENCE H. MACKAY
ERNEST C. BLISS	MORTIMER L. SCHIFF
TEMPLE BOWDOIN	GRANT B. SCHLEY
WILLIAM H. FISCHER	ALBERT TAG
HENRY GOLDMAN	F. D. UNDERWOOD
GEORGE COE GRAVES	DELOS O. WICKHAM
EDWARD S. HARKNESS	MRS. M. ORME WILSON
EGERTON L. WINTHROP	

### DECEASED TRUSTEES AND MEMBERS

It is with a profound sense of our loss that we announce the death of the following Trustees and Members during the year 1909:

#### *Trustees*

CORNELIUS C. CUYLER                      D. O. MILLS

#### *Patrons*

MRS. WILLIAM E. DODGE                      MISS PHEBE ANNA THORNE

#### *Fellows*

MISS CAROLINE PHELPS STOKES              RUTHERFURD STUYVESANT

#### *Life Members*

THEODORE K. GIBBS	W. B. ISHAM
JOHN N. A. GRISWOLD	JOHN S. KENNEDY
E. H. HARRIMAN	FORDHAM MORRIS

In appreciation of Mr. Cuyler's interest in the Museum, the Trustees adopted the following Minute at the regular Quarterly Meeting of the Board, November 8, 1909:

It is our very sad duty to record the untimely death of

CORNELIUS C. CUYLER

at Biarritz, France, on July 31, 1909.

Mr. Cuyler was elected a Trustee on February 8, 1904, to succeed the Honorable Abram S. Hewitt. On the decease of Mr. Jesup, he became the especial representative of that family. During the year 1909 he served on the Committee on Buildings and Plans and on Finance.

He began his service for the Museum with his usual optimism, whole heartedness and sound judgment, and was full of pride and hope as to his future connection with its development.

In common with many other institutions which he served with rare fidelity and devotion, we deeply mourn his loss and shall miss him at our councils.

While the death of Mr. Mills did not occur until January 3, 1910, we desire to record in this, the Report of 1909, the resolution which was adopted at the Annual Meeting of the Trustees, February 14, 1910:

This Board records with sorrow its tribute to the late

DARIUS OGDEN MILLS

for twenty-eight years one of its number.

Mr. Mills was elected a Trustee February 13, 1882, and a year later was made a member of the Finance Committee, on which he continued to serve until his death. He was one of the four members of the Committee appointed in 1892 to consider arrangements for educational coöperation, and he also served on the Nominating Committee and was its Chairman for over fifteen years.

The Museum is indebted to Mr. Mills for many generous gifts.

Since the foundation of the Museum forty-odd years ago many prominent and distinguished men have served on the Board of Trustees, but none whose presence was more welcome than that of Mr. Mills. Quiet and gentle in manner, sound in judgment and wise in counsel, modest and simple but full of good sense, just and true in every dealing, he was loved and appreciated by all who knew him. His death on January third leaves his fellow Trustees of this Board with a feeling of profound sense of loss and with the greatest admiration for his fine and lovable qualities of character.

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#### IV. FINANCES, MAINTENANCE, ENDOWMENT

The financial transactions of the Museum have been carried in three separate accounts, namely, the City Maintenance Account, the General Account and the Special Funds Account, all of which are described later. The details of the receipts and disbursements thus classified will be found in the Treasurer's Report, pages 53 to 63 inclusive. All books and vouchers of these accounts have been duly examined and certified by the Audit Company of New York.

**CITY MAINTENANCE ACCOUNT.**—According to the terms of the contract between the City and the Trustees it is the duty of the City to provide for the maintenance of the Museum and the up-keep of the building. During the past year, the City appropriated \$180,000 for this purpose and as usual the receipts and expenditures have been carried in an account separate from the other moneys of the Museum. Generous as this sum may seem, it is quite insufficient to meet all the expenses of maintenance, and items to the amount of \$36,652.01 legitimately chargeable to the City have been paid from the funds of the Trustees. The need of a larger maintenance fund is apparent and it is expected that in the coming year it will be increased to \$200,000, the maximum amount which the law allows.

**GENERAL ACCOUNT.**—The moneys of this account are derived from the interest on invested funds, membership and sales. The total net receipts were \$154,018.51, the principal items of which were as follows:

Interest on bequest of Morris K. Jesup.....	\$49,600.00
Interest on General Endowment.....	50,251.25
Life Members.....	7,100.00
Sustaining and Annual Members.....	17,645.00
Balance of contribution of 1908 by Mrs. Morris K. Jesup, which was applied to the purchase of the Cape York or "Peary" meteorites.....	20,594.60

It was Mr. Jesup's wish, as stated in his will, that the income of his bequest should not be used for maintenance purposes, but for the enlargement of the collections and the prosecution of the scientific work of the institution. In carrying out the terms of the bequest, the Trustees have devoted this money to the support of field parties in Arctic America,

Hudson Bay, British Columbia, Alaska, the Southwest and the Philippines, and to the purchase of important collections and specimens, including the Starr Collection of African Ethnology, the Benedict Collection of Philippine Ethnology, the Palawan Collection of Mammals and Birds, a collection of mammals and birds from Nicaragua, a rare skeleton, with skin, of the dinosaur *Trachodon*, the Modoc and Guffey meteorites, the Mexican Codex, and several objects from the Maori of New Zealand.

TRUSTEES SPECIAL FUNDS ACCOUNT.—Money given to the Museum for specified purposes is carried in this account. Often some patron, or group of patrons, will undertake the support of a particular piece of work or will assist in acquiring an important collection. Such contributions supplement the General Account very materially.

Usually the financial transaction relating to such a matter will be found in the Special Funds Account.

The following shows the total expenditures by the City during the year 1909, as compared with the expenditures by the Trustees from funds derived from all sources, together with the increase of collections by direct gift the cost of which does not pass through the Treasurer's books:

Expenditures by the City.....	\$180,048.69
Expenditures by the Trustees.....	208,031.51

TRUSTEES PERMANENT ENDOWMENT.—The Permanent Endowment is the backbone of the steady development of the Museum and it is for this reason that a larger endowment is imperative. The only additions that have been made to this fund during the year are the bequest of \$10,000 of Mr. William R. Sands, a Life Member of the Museum, and the two patronships of \$1,000 each of Mrs. Andrew Carnegie and Mr. Thomas DeWitt Cuyler. The fund will be further increased by the bequest of \$10,000 of Miss Phebe Anna Thorne, to which her executors intend to add \$15,000, and the bequest of \$100,000 of Mr. D. O. Mills.

Very respectfully yours,

HENRY FAIRFIELD OSBORN

*President*

May 1, 1910



# FINANCIAL STATEMENT

## 1909

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### *PERMANENT ENDOWMENT\**

Morris K. Jesup Fund.....	\$1,135,600 00	
General Fund.....	1,007,750 00	
John B. Trevor Fund.....	25,000 00	
Josiah M. Fiske Fund.....	10,000 00	
Matilda W. Bruce Fund.....	11,000 00	
Solomon Loeb Fund.....	5,000 00	
		<hr/>
		\$2,194,350 00
Uninvested Cash.....		1,295 92
		<hr/>
		<u>\$2,195,645 92</u>

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\* The income on the Permanent Endowment is the chief source of income of the General Account.

*CITY MAINTENANCE ACCOUNT*

RECEIPTS

1909

Capital Fund, January 1, 1909.....		\$15,000 00
Department of Parks :		
Account of 1908.....	\$49 09	
Appropriation for 1909 :		
Salaries and Wages .....	\$152,443 00	
Telephone, Rental of .....	382 69	
General Supplies.....	9,645 74	
Materials for Repairs and Re-		
placements by Departmental		
Labor.....	6,694 54	
Repairs and Replacements by		
Contract or Open Order.....	475 26	
Apparatus and Machinery,		
Equipment, Care and Storage		
of same.....	229 80	
Fuel .....	6,652 03	
Contingencies.....	1,427 42	
Bills awaiting reimbursement...	2,049 12	
		179,999 60
<b>Total receipts for the maintenance</b>		
<b>    of all departments.....</b>		<b>180,048 69</b>
General Account :		
Transferred to balance deficit.....		226 23
Interest on Credit Balances.....		82 95
Loans.....		3,500 00
		<u>\$198,857 87</u>

Examined and Approved	{	ANSON W. HARD	}	<i>Auditing Committee</i>
		GUSTAV E. KISSEL		
		SETH LOW		

**CITY MAINTENANCE ACCOUNT\***

**DISBURSEMENTS**

1909

Geology and Invertebrate Palæontology.....	\$5,778 80
Mineralogy.....	2,534 21
Mammalogy and Ornithology.....	5,446 85
Vertebrate Palæontology.....	10,956 74
Anthropology.....	8,405 43
Invertebrate Zoölogy.....	8,177 66
Ichthyology and Herpetology.....	2,013 63
Physiology.....	1,134 25
Library.....	9,518 87
Public Instruction.....	4,003 49
Preparation and Exhibition.....	8,494 59
Heating and Lighting.....	21,229 16
Repairs and Installation.....	20,335 79
General Supplies and Expenses.....	7,305 45
Administration.....	64,940 00
<b>Total disbursements for the maintenance of all departments.....</b>	<b>\$180,274 92</b>
Interest on Credit Balances transferred to General Account.....	82 95
Loans.....	3,500 00
Capital Fund :	
Cash on hand December 31, 1909.....	12,950 88
Bills awaiting reimbursement.....	2,049 12
	<u>15,000 00</u>
	<u><u>\$198,857 87</u></u>

CHARLES LANIER, *Treasurer*

[E. & O. E.]

NEW YORK, *December 31, 1909*

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\*The annual appropriation of the City can be used only for the *maintenance* of the Museum and is inadequate for this purpose. It cannot be used for the purchase of specimens or for the expenses of exploring and collecting expeditions.

THE AMERICAN MUSEUM OF NATURAL HISTORY

GENERAL ACCOUNT

RECEIPTS

1909

Temporary Working Fund Capital.....		\$500 00
Interest on Permanent Endowment.....	\$99,851 25	
Interest on Credit Balances.....	3,771 57	
Fellows.....	1,000 00	
Life Members.....	7,100 00	
Annual Members.....	17,220 00	
Sustaining Members.....	425 00	
Contribution, Percy R. Pyne.....	2,000 00	
Sale of Publications.....	743 55	
Sales and Exchanges.....	1,312 54	
Transferred from Special Funds:		
Gift of Mrs. Morris K. Jesup for the purchase of the Peary Meteorites and Ethnological Collections .....	20,594 60	
<b>Total receipts for the development of all     departments.....</b>		<b>154,018 51</b>
Reimbursements:		
Special Funds Account Transfers:		
African Elephant Group Fund.....	10,000 00	
Horse Exploration Fund.....	1,900 00	
Vertebrate Palæontology Field Funds .....	1,300 00	
Hudson-Fulton Celebration Commission Fund.....	730 02	
Alaskan Basketry Fund.....	250 00	
General Account:		
Unexpended Field Balances, etc. ....	2,597 47	
		16,777 49
Patrons:		
Mrs. Andrew Carnegie.....	1,000 00	
Thomas DeWitt Cuyler .....	1,000 00	
		2,000 00
Loans.....		11,000 00
		<u>\$184,296 00</u>

Examined and Approved { ANSON W. HARD  
GUSTAV E. KISSEL } Auditing  
SETH LOW Committee

## GENERAL ACCOUNT\*

### DISBURSEMENTS

1909

Geology and Invertebrate Palæontology.....	\$25,856	17
Mineralogy .....	108	88
Mammalogy.....	22,013	71
Vertebrate Palæontology.....	17,431	44
Anthropology.....	32,107	66
Invertebrate Zoölogy.....	7,647	60
Ichthyology and Herpetology.....	853	80
Physiology.....	1,534	31
Library.....	6,881	56
Publications .....	14,651	36
Public Instruction.....	4,983	20
Preparation and Exhibition .....	8,225	06
Heating and Lighting.....	1,978	05
Repairs and Installation.....	3,279	51
General Supplies and Expenses.....	12,756	14
Sales and Exchanges.....	787	96
Professor Osborn's Research and Publication Fund..	3,403	45
Interest on Overdrafts .....	421	29

Total disbursements for the development of  
all departments.....

\$164,921 15

Patrons :

Transferred to Investment Fund, Special Funds Account.....	2,000	00
Loans.....	11,000	00
Transferred to City Maintenance to balance deficit ..	226	23
Cash on hand December 31, 1909.....	5,648	62
Temporary Working Fund Capital.....	500	00
	<u>\$184,296</u>	<u>00</u>

CHARLES LANIER, *Treasurer*

[E. & O. E.]

NEW YORK, *December 31, 1909*

\* Disbursements of this account are made, as the Board of Trustees may direct, for the purchase of specimens, for the expenses of field parties and for the support of scientific work.



THE AMERICAN MUSEUM OF NATURAL HISTORY

SPECIAL FUNDS ACCOUNT

RECEIPTS

1909

GEOLOGY:

CHARLES E. SLOCUM FUND..... \$200 00

MAMMALOGY AND ORNITHOLOGY:

NORTH AMERICAN ORNITHOLOGY FUND, BALANCE ..... \$355 55

NORTH AMERICAN ORNITHOLOGY FUND, SERIES 2:

Miss Carolyn Morgan.....	\$250 00	
Mrs. Harriet L. Schuyler.....	250 00	
Henry Clay Pierce.....	500 00	
Mrs. Morris K. Jesup.....	250 00	
Mrs. John B. Trevor.....	250 00	
F. Aug. Schermerhorn.....	500 00	
John L. Cadwalader.....	250 00	
F. Brandreth.....	50 00	
Mrs. Robert Winthrop.....	250 00	
Mrs. Louisine W. Havemeyer.....	250 00	2,800 00

AFRICAN ELEPHANT GROUP FUND:

Archer M. Huntington.....	2,000 00	
Arthur Curtiss James.....	1,000 00	
Cleveland H. Dodge.....	1,000 00	
George S. Bowdoin.....	2,000 00	
J. Pierpont Morgan.....	2,500 00	
Gustav E. Kissel.....	500 00	
Percy R. Pyne.....	1,000 00	10,000 00

MRS. FRANK K. STURGIS FUND, BALANCE..... 63 78

CONGO EXPEDITION FUND:

Charles Lanier.....	1,000 00	
John B. Trevor.....	2,500 00	
Robert W. Goellet.....	1,000 00	
W. K. Vanderbilt.....	1,000 00	
A. D. Juilliard.....	500 00	
William Rockefeller.....	2,000 00	
J. Pierpont Morgan, Jr.....	1,000 00	
Cleveland H. Dodge.....	1,000 00	
Belgian Government.....	1,329 13	11,329 13

CRANDALL OÖLOGICAL FUND:

Mrs. Albert Bierstadt.....	250 00	
Dr. Carroll Dunham.....	10 00	
Samuel Thorne.....	250 00	
J. Chr. C. Hupfel.....	25 00	
William P. Clyde.....	250 00	
Mrs. William H. Bliss.....	50 00	
Charles M. Schott, Jr.....	50 00	885 00

Carried forward..... \$25,433 46

*SPECIAL FUNDS ACCOUNT*

DISBURSEMENTS

1909

GEOLOGY:

CHARLES E. SLOCUM FUND..... \$200 00

MAMMALOGY AND ORNITHOLOGY:

NORTH AMERICAN ORNITHOLOGY FUND..... \$296 85

NORTH AMERICAN ORNITHOLOGY FUND,  
SERIES 2..... 971 06

AFRICAN ELEPHANT GROUP FUND..... 10,000 00

CONGO EXPEDITION FUND..... 10,629 61  
21,897 52

*Carried forward*..... \$22,097 52

THE AMERICAN MUSEUM OF NATURAL HISTORY

SPECIAL FUNDS ACCOUNT

RECEIPTS

1909

*Brought forward*..... \$25,633 46

MINERALOGY :

MATILDA W. BRUCE FUND :

Balance.....	\$ 9 00	
Interest.....	660 00	
		669 00

VERTEBRATE PALÆONTOLOGY :

HORSE EXPLORATION FUND :

Frank K. Sturgis.....	200 00	
Cleveland H. Dodge.....	1,000 00	
George J. Gould.....	1,000 00	
		2,200 00

TERTIARY FAUNAL LIFE SCENES FUND :

J. Pierpont Morgan, Jr.....	1,000 00	
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VERTEBRATE PALÆONTOLOGY FIELD FUNDS :

Henry Fairfield Osborn.....	1,500 00	
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TRICERATOPS FUND :

Charles Lanier.....	1,000 00	
		5,700 00

ANTHROPOLOGY :

HYDE EXPLORATION FUND :

B. T. B. Hyde.....	50 00	
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WM. DEMUTH COLLECTION :

Balance .....	38 27	
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EAST ASIATIC FUND :

Balance .....	3,180 75	
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BERLIN NORTH AMERICAN FUND :

Balance.....	78 50	
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MURAL DECORATION FUND :

Balance .....	100 00	
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BOARD OF MISSIONS FUND :

Balance .....	830 00	
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ALASKAN BASKETRY FUND :

Mrs. Morris K. Jesup.....	250 00	
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PRIMITIVE PEOPLES OF THE SOUTHWEST FUND :

Archer M. Huntington.....	5,000 00	
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GEORGE S. BOWDOIN FUND.....	700 00	
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10,227 42

*Carried forward*..... \$42,229 88

*SPECIAL FUNDS ACCOUNT*

DISBURSEMENTS

1909

	<i>Brought forward</i> .....	\$22,097 52	
MINERALOGY:			
	MATILDA W. BRUCE FUND.....	669 00	
VERTEBRATE PALÆONTOLOGY:			
	HORSE EXPLORATION FUND.....	2,200 00	
	TERTIARY FAUNAL LIFE SCENES FUND.....	600 00	
	VERTEBRATE PALÆONTOLOGY FIELD FUNDS.	1,500 00	
	TRICERATOPS FUND.....	<u>1,000 00</u>	5,300 00
ANTHROPOLOGY:			
	HYDE EXPLORATION FUND.....	50 00	
	WM. DEMUTH COLLECTION .....	38 17	
	EAST ASIATIC FUND.....	39 00	
	MURAL DECORATION FUND.....	100 00	
	ALASKAN BASKETRY FUND .....	250 00	
	PRIMITIVE PEOPLES OF THE SOUTHWEST FUND	5,000 00	
	GEORGE S. BOWDOIN FUND.....	<u>700 00</u>	6,177 17
	<i>Carried forward</i> .....		<u>\$34,243 69</u>

THE AMERICAN MUSEUM OF NATURAL HISTORY

SPECIAL FUNDS ACCOUNT

RECEIPTS

1909

<i>Brought forward</i> .....		\$42,229 88
<b>INVERTEBRATE ZOOLOGY:</b>		
EMERSON McMILLIN GIFT .....	\$250 00	
ASHOKAN WATERSHED BIOLOGICAL SURVEY FUND:		
S. D. Coykendall.....	250 00	500 00
<b>ICHTHYOLOGY AND HERPETOLOGY:</b>		
FOSSIL FISH EXPLORATION FUND:		
Balance .....	2,184 44	
Cleveland H. Dodge.....	1,500 00	3,684 44
<b>PUBLIC INSTRUCTION:</b>		
CHILDREN'S MUSEUM FUND:		
Balance .....	183 91	
L. F. Dommerich.....	10 00	193 91
<b>PUBLICATIONS:</b>		
JESUP NORTH PACIFIC EXPEDITION		
PUBLICATIONS:		
Balance.....	729 73	
Mrs. Morris K. Jesup.....	2,000 00	2,729 73
<b>Total receipts for the development of specific departments.....</b>		<b>49,337 96</b>
<b>GIFT OF MRS. MORRIS K. JESUP:</b>		
Balance.....		20,594 60
<b>RESERVE FUND:</b>		
Mrs. Louisine W. Havemeyer.....		250 00
<b>HUDSON-FULTON CELEBRATION COMMISSION FUND.....</b>		<b>1,000 00</b>
<b>INVESTMENT FUND:</b>		
Balance.....	1,000,406 61	
Legacy of William R. Sands.....	10,000 00	
General Account:		
Transfers, Patronships .....	2,000 00	
Sale of Bonds .....	241,294 93	1,253,701 54
Interest on Credit Balances.....		3,688 62
		<u>\$1,328,572 72</u>

Examined and Approved	{ ANSON W. HARD GUSTAV E. KISSEL SETH LOW	} Auditing Committee

*SPECIAL FUNDS ACCOUNT\**

DISBURSEMENTS

1909

<i>Brought forward</i> .....	\$34,243 69
INVERTEBRATE ZOOLOGY:	
EMERSON McMILLIN GIFT.....	\$250 00
ASHOKAN WATERSHED BIOLOGICAL SURVEY FUND.....	113 50
	363 50
ICHTHYOLOGY AND HERPETOLOGY:	
FOSSIL FISH EXPLORATION FUND.....	1,316 19
PUBLIC INSTRUCTION:	
CHILDREN'S MUSEUM FUND.....	20 94
PUBLICATIONS:	
JESUP NORTH PACIFIC EXPEDITION PUBLICATIONS.....	2,125 65
Total disbursements for the development of specific departments.....	38,069 97
GIFT OF MRS. MORRIS K. JESUP.....	20,594 60
HUDSON-FULTON CELEBRATION COMMISSION FUND..	1,000 00
INVESTMENT FUND:	
Purchase of Bonds.....	1,252,405 62
INTEREST ON CREDIT BALANCES:	
Earnings to December 31, 1909.....	3,688 62
Cash on hand December 31, 1909.....	12,813 91
	<u>\$1,328,572 72</u>

CHARLES LANIER, *Treasurer*

[E. & O. E.]

NEW YORK, *December 31, 1909*

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\*In this account are carried all moneys given to the Museum for specific purposes and not intended for the endowment.

# LIST OF ACCESSIONS, 1909

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## DEPARTMENT OF PUBLIC INSTRUCTION

### BY GIFT

C. E. AKELEY, Chicago, Ill.

4 Photographs of African Elephants in the Field Museum of Natural History, mounted by Mr. C. E. Akeley.

CONGO MUSEUM, Tervueren, Belgium.

9 Photographs of the Congo Exhibit.

PHILIP HINKLE, Cincinnati, Ohio.

1 Photograph of the Serpent Mound.

HUDSON-FULTON COMMITTEE, New York City.

Slides, Shield and Flags.

MRS. MARY E. LOUD, New York City.

1 Mounted Mocking Bird.

G. FREDERICK NORTON, New York City.

7 Transparencies of Whaling Scenes in Hawk Harbor, Labrador.

WELLINGTON MUSEUM, Wellington, New Zealand.

14 Photographs of Maori Busts in course of preparation by the Wellington Museum.

### BY EXCHANGE

CHARLES BESELER & COMPANY, New York City.

52 Photographs of Hudson-Fulton Celebration.

MATTHEW HENSON, of the Peary Arctic Expedition.

110 Photographs and 58 Slides from Negatives made on the Peary Arctic Expedition of 1908.

DONALD B. McMILLAN, Worcester, Mass.

14 Slides from Negatives made on the Peary Arctic Expedition of 1908.

GEORGE A. WARDWELL, of the Peary Arctic Expedition.

101 Photographs and 58 Slides from Negatives made on the Peary Arctic Expedition of 1908.

MESSRS. LOUIS WEISS and HERMANN SCHMIDT, Brooklyn, N. Y.

375 Photographs and 57 Slides from Negatives of the Rio Negro region of South America.

### BY PURCHASE

FREDERICK L. STARR, Chicago, Ill.

52 Photographic Enlargements of Ethnological Types from the Belgian Colony of the Congo.

LOAN

LIEUTENANT GEORGE T. EMMONS, Washington, D. C.

348 Negatives of Alaska and British Columbia from which the Department made prints for its files.

THROUGH MUSEUM EXPEDITIONS

55 Negatives of Cape Fullerton and Repulse Bay regions, made by Capt. George Comer in winters of 1907, 1908 and 1909.

302 Negatives, 28 Slides and 11 Photographs of Alaska and British Columbia, made by Messrs. Harlan I. Smith and W. S. Taylor.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE  
PALÆONTOLOGY

GEOLOGY

BY GIFT

MISS M. P. BARTLETT, East Windsor, Conn.

20 Clay Dogs from the Scantic River, East Windsor, Conn.

BUREAU OF SCIENCE, Manila, P. I.

A series of minerals and ores from various provinces in the Philippines.

CALUMET AND HECLA MINES CO., Calumet, Mich.

50 Specimens of ores.

DR. J. MORGAN CLEMENTS, New York City.

28 Specimens of ores and minerals from Colorado, Arizona, Arkansas, and Sonora, Mexico.

DELAWARE, LACKAWANNA & WESTERN COAL CO., Scranton, Pa.

Large fossilized stump from anthracite coal mine under Scranton, Pa.

E. C. EASTON, Gouverneur, N. Y.

1 Piece foliated Talc, 18" x 8".

1 Piece fibrous Talc, 13 inches long.

2 Small fragments of fibrous Talc.

2 Small fragments of Tremolite.

ESTATE OF JAMES D. HAGUE, New York City.

5 Tubes of copper concentrates.

1 Tube of waste slime from the Franklin Mine, Houghton, Mich.

THE MOND NICKEL CO., LTD., Victoria Mines, Ontario.

3 Specimens of wall rock.

2 Specimens of Pyrrhotite and Chalcopyrite.

1 Specimen of converter slag.

1 Specimen of converter matte.

1 Specimen of blast furnace matte.

1 Specimen of Pyrrhotite carrying Nickel.

4 Pounds of blast furnace slag (granulated).

NORTH STAR MINES CO., Grass Valley, Calif.

40-pound section of vein of the North Star Mine and a 2-ounce specimen of vein carrying free gold.



L. D. RICKETTS, Cananea, Sonora, Mex.

1 Specimen Sphalerite.

STANDARD PLUNGER ELEVATOR CO., New York City.

9 Drill-core specimens.

#### BY EXCHANGE

OTTO F. PFORDTE, Rutherford, N. J.

8 Specimens of Zincite, Franklinite, etc., from Ogdensburg, N. J.

7 Specimens of Willemite, Franklinite, Garnet and Chalcophanite  
from Franklin and Ogdensburg, N. J.

#### BY PURCHASE

1 Slab of Limestone containing Orthoceratites.

1 *Haploscapa* shell, four feet high.

"Modoc" Stone Meteorite, 20 lbs., 3 oz., Scott Co., Kan.

"Guffey" Iron Meteorite, 682 pounds, Fremont Co., near Guffey, Col.

1 *Uintacrinus* slab containing 68 bodies.

"Brenham" Meteorite, second largest fragment in existence of  
siderolite form, Kiowa Co., Kan.

#### THROUGH MUSEUM EXPEDITIONS

100 Specimens of iron ore, copper and associated rocks from Marquette, Ishpeming and Houghton, Mich. Collected by Dr. E. O. Hovey.

12 Specimens of Hematite, Country Rock and Jaspilite from Oliver Mine, Ishpeming, Mich. Collected by Dr. E. O. Hovey.

2 Blocks of Limestone 8' x 10' and 4' x 4' respectively, showing glacial grooves and fossils, from Kelley's Island, Ohio. Collected by Dr. E. O. Hovey. Fund supplied by Dr. C. E. Slocum, Defiance, Ohio.

### INVERTEBRATE PALÆONTOLOGY

#### BY GIFT

BARNUM BROWN, New York City.

30 Laramie Cretaceous fossils from 40 miles east of Glasgow, Mont.

ESTATE OF DR. JAMES W. HALL.

10 Sections of corals.

EDWARD H. HOPPENSTEDT, New York City.

1 Slab of worm burrows from Wurtsboro, Sullivan Co., N. Y.

E. H. PASCOE, Geological Survey of India.

Large series of fossil *Cyrena* shells.

GEORGE A. WARDWELL, of the Peary Arctic Expedition.

50 Carboniferous fossils from Lat. 82° 27' north of Greenland.

CHRISTIAN WEBER, Jersey City, N. J.

51 Fossil Plants from the Dakota Group, Fort Harker, Kan.

21 Coal Measure Plants from Scranton, Pa.

1 Geode, Warsaw limestone, Illinois.

8 Sand concretions, Stillwater, N. Y.

BY PURCHASE

62 Lamellibranchs, 8 Ammonites, 150 Gastropods, 10 Echinoderms,  
from Mount Lebanon, Syria.

DEPARTMENT OF MAMMALOGY AND  
ORNITHOLOGY

MAMMALS

BY GIFT

DANIEL BEARD, Flushing, N. Y.

4 Small mammal skins.

DR. LUCIUS C. BUCKLEY, Bangkok, Siam.

4 Small mammals from Siam.

R. R. CARROLL, New York City.

1 Young Greenland Seal, 1 mounted head of Newfoundland Caribou.

CAPT. B. D. CLEVELAND, New Bedford, Mass.

Jaw of Sperm Whale.

R. COLLINS, through Hon. J. H. Rogers, U. S. Consular Agent, Towns-  
ville, Queensland.

Deformed leg of Cow.

MRS. CORNELL, New York City.

Caribou head and mounted Seal.

DEPARTMENT OF PARKS, New York City.

36 Monkeys, 1 Ocelot, 2 young Leopards, 1 Lion Cub, 1 Gray Fox,  
1 Coatimondi, 1 Grizzly Bear, 1 Brown Bear, 1 Cinnamon Bear,  
2 Fallow Deer, 2 Axis Deer, 1 Brazilian Sheep, 1 Llama, 1  
Camel, 2 Aoudads, 4 Nilghaus, 1 Porcupine, 5 Opossums.  
Total, 64 specimens received in the flesh from the Central Park  
Menagerie.

J. DIXON, Stanford University, Calif.

Topotypes of *Reithrodontomys raviventris* and *R. halicoetis*.

G. DWIGHT FRANKLIN, New York City.

1 Coney, 2 Rabbits.

L. GIBSON, Schenectady, N. Y.

1 Eskimo Dog.

WALTER GRANGER, New York City.

3 Skulls of Pronghorn.

ARTHUR HEINRICH, Baldwin, N. Y.

2 Rabbits.

MRS. R. HURD, Gloucester, Mass.

1 Iceland Fox, mounted.

GNEOMAR VON KROCKOW, New York City.

1 Pair of Chamois horns, 4 pairs of Roebuck horns, 1 pair of Ariel Antelope horns, 1 skull of European Hare with malformed incisors.

E. HUBERT LITCHFIELD, B. DOMINICK, Jr., and H. SAMPSON, Jr., New York City.

3 Grant Gazelles, 1 Thompson Gazelle, 1 Coke Hartebeest, 1 Neumann Hartebeest, 1 foetal Rhinoceros, skull and cervical vertebrae of Giraffe, 1 Mongoose, 1 Hyæna, from British East Africa.

CHARLES S. MEAD, Suffolk, Conn.

3 Shrews.

NEW YORK ZOÖLOGICAL SOCIETY, New York City.

1 Pair shed antlers.

Photographs of Wapiti.

G. FREDERICK NORTON, New York City.

Whale transparencies.

PEARY ARCTIC CLUB, New York City.

1 Polar Bear skull, 10 Walrus skulls, 10 Narwhal tusks, 50 Musk-oxen (skins with skulls and leg bones), 65 Caribou (skins with skulls and leg bones), about 100 Lemmings (in spirits), 1 Ermine, 5 Walrus fetuses, 1 Seal fetus, 1 Narwhal fetus, 2 Caribou fetuses,—in all, about 250 specimens.

JOHN B. TREVOR, New York City.

Mounted head of Lapland Reindeer.

W. T. VAN RENSSELAER, Salt Point, N. Y.

2 Wild European Hares, 1 black Woodchuck, from Dutchess County, N. Y.

COL. A. E. WARD, Kashmir, N. India.

20 Small mammals from Kashmir.

FRANK WOOD, New Bedford, Mass.

Complete Whaling Outfit.

#### BY PURCHASE

2 Specimens of *Ursus kermodei*; 19 specimens of Wolves, Lynxes and Bears from Minnesota; skeletons of Blackfish and Dolphin from New Zealand; 33 small mammals from Palawan Island P. I.; 38 small mammals from the Island of Trinidad, B. W. I.; 177 specimens from Nicaragua; 28 specimens from Hudson Bay.

#### THROUGH MUSEUM EXPEDITION

1 Harbor Seal, 3 skeletons and 6 skulls of the White Whale, 1 Racon.

BIRDS

By Gift

Mrs. H. M. BILLINGS, New York City.

Birds' nests.

Mrs. J. B. BLOOMINGDALE, New York City.

1 Bittern (mounted).

EDGAR BURKE, Morristown, N. J.

1 Least Sandpiper.

ROBERT E. CLARKE, Yonkers, N. Y.

1 Reeve's Pheasant.

R. B. CONSTANTINE, South Orange, N. J.

4 Red Jungle Fowls.

HOMER DAVENPORT, Morris Plains, N. J.

1 Crowned Crane.

DEPARTMENT OF PARKS, New York City.

24 Swans, 1 Duck, 1 Peacock, 5 Pheasants, 1 Crane, 5 Eagles, 4 Hawks, 2 Owls, 10 Parrots, 1 Crow.—Total, 54 specimens received in the flesh from the Central Park Menagerie.

Dr. JONATHAN DWIGHT, Jr., New York City.

12 Bird skins.

Dr. P. JAMES FAGAN, New York City.

1 Canadian Warbler.

Dr. A. K. FISHER, Washington, D. C.

2 Evening Grosbeaks (skins).

G. CLYDE FISHER, DeFuniak Springs, Fla.

8 Skins from Florida.

G. DWIGHT FRANKLIN, New York City.

1 Barn Swallow.

O. S. GRINNELL, New York City.

1 Canada Goose.

HENRY HALE, Ridgewood, N. J.

Cast of Great Auk's egg.

FRANCIS HARPER, College Point, N. Y.

1 Laughing Gull, 1 Yellow-billed Cuckoo.

ARTHUR HEINRICH, Baldwin, N. Y.

1 Red-breasted Merganser.

ADAM HERMANN, New York City.

8 Skins from Patagonia.

Dr. JOHN HORNING, Ventura, Calif.

25 Beautifully prepared skulls.

Dr. JOHN HOWLAND, New York City.

40 Mounted birds, mostly of large size.

D. M. HYMAN, New York City.

3 Mounted Ring-necked Pheasants.

Dr. D. T. KENNEDY, Southampton, N. Y.

1 Hooded Merganser.

- EDWIN C. KENT, New York City.  
1 Blue Goose.
- EDWARD LANE, New York City.  
1 Long-eared Owl.
- ROBERT B. LAWRENCE, New York City.  
1 Northern Phalarope.
- G. E. LODGE, London, England.  
8 Skins of Red Grouse and Partridge.
- Miss NINA MARSHALL, New York City.  
1 Weaver Bird.
- W. DEW. MILLER, Plainfield, N. J.  
2 Bufflehead Ducks, 1 Short-eared Owl.  
2 Small birds.
- HON. MASON MITCHELL, Apia, Samoa.  
2 Tooth-billed Pigeons, 3 Fruit Pigeons and 1 Gallinule.
- NEW YORK FOREST, FISH AND GAME COMMISSION, Albany, N. Y.  
2 Ptarmigans, 1 Black Grouse, 2 Golden Plovers, 2 Sandpipers, 2  
Woodcocks.—Total, 9 specimens received in the flesh.
- NEW YORK ZOÖLOGICAL SOCIETY, New York City.  
1 Ostrich, 1 Rhea, 1 Ocellated Turkey.
- O'NEILL-ADAMS COMPANY, New York City.  
1 Mounted Snowy Owl.
- ADAM A. PELHAM, Palenville, N. Y.  
Nest and two eggs of Ovenbird.
- HARRY C. RAVEN, Bay Shore, N. Y.  
2 Ducks and 1 Bittern.
- Mrs. AGNES ROESLER, New York City.  
1 Red-shouldered Hawk.
- DR. L. C. SANFORD, New Haven, Conn.  
4 Ducks, 1 Red-throated Loon, 11 skins including a Yellow Rail.
- Miss MARY J. SMITH, New York City.  
6 Parrot eggs.
- J. O. SNYDER, Palo Alto, Calif.  
7 Skins of small birds.
- FREDERIC W. STACK, New Rochelle, N. Y.  
57 Skins of North American birds.
- ARTHUR SUSSMAN, Long Branch, N. J.  
1 Swan, shot at Manahawkin Bay, N. J.
- HON. JOHN E. THAYER, Lancaster, Mass.  
A series of eggs of Heermann's Gull.
- DR. E. LEROY THOMPSON, Nantucket, Mass.  
Wings, feet and head of a Blue Goose.
- E. WALDSTEIN, New York City.  
1 Parrot.
- REV. M. P. WELCHER, Norwalk, Conn.  
10 Nests and several eggs.

BY EXCHANGE

167 Specimens from Japan ; 16 small birds from Lower California ;  
10 small birds from Costa Rica ; 4 large birds from Nebraska ;  
1 Great Horned Owl from New York.

BY PURCHASE

595 Specimens from Nicaragua ; 103 (mostly large) specimens from  
Palawan, P. I. ; 31 Penguins ; 2 Jabirus ; 7 specimens from  
Siam ; 2 Golden Eagles ; 13 eggs of Albatross and Fulmar.

THROUGH LOCAL COLLECTING

358 Specimens, mostly from Long Island, N. Y.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

BY GIFT

N. H. BROWN, Lander, Wyo.

Skull of *Amyrnodon* and skull of a *Titanotherium* found by the donor in  
Tertiary formations near Lander.

AMORY COFFIN, S. Orange, N. J.

2 Teeth of *Mastodon* from Eddystone Island, S. C.

KARL HAGENBECK, Stellingen-bei-Hamburg, Germany.

Statuette models of *Bos primigenius*, *Iguanodon*, *Diplodocus*, *Glyptodon*, *Pareiasaurus* and *Triceratops*.

CHARLES LANIER, New York City.

Skull of the Horned Dinosaur *Triceratops*, with the horns excep-  
tionally perfect and of record size, found by George Sternberg  
in the Cretaceous of Wyoming.

BY EXCHANGE

BRITISH MUSEUM, London, England.

Cast of type skull of *Hyracotherium*.

PALÆONTOLOGICAL MUSEUM, Munich, Germany.

Complete skeleton of *Pterodactylus* from the lithographic limestones  
of Bavaria.

DARMSTADT MUSEUM, Germany.

Cast of skeleton of *Halitherium* from the Oligocene of Germany.

UNIVERSITY OF CALIFORNIA, Berkeley, Calif.

Skull and jaws of the Sabre-Tooth Tiger from the asphalt deposits  
near Los Angeles, Calif.

BY PURCHASE

INCOME FROM MORRIS K. JESUP BEQUEST.

Mummied skeleton of the Duck-Billed Dinosaur *Trachodon* from the  
Upper Cretaceous of Wyoming.

Skull, with complete horns, of the Long-Horned Bison, and lower  
jaws of the Imperial Mammoth, from the Pleistocene of Kansas.

Skull of the Marine Reptiles *Clidastes* and *Toxochelys* from the Marine Cretaceous of Kansas.

Skull of the extinct Beaver *Steneofiber* from the Miocene of Nebraska.

Skull and associated bones of *Moropus* from the Miocene of Nebraska.

Skull of *Mastodon* from the Pleistocene of Indiana.

2 Partial skeletons of *Pteranodon* from the Cretaceous of Kansas.

2 Carapaces of gigantic extinct Tortoises from the Miocene of Kansas.

Model of skull and jaws of *Proseuglodon* of the Fayûm, Egypt.

Model of skull and jaws of *Megaladapis*, the giant extinct Lemur of Madagascar.

#### THROUGH MUSEUM EXPEDITIONS

#### CRETACEOUS OF MONTANA.

Skeleton of a Horned Dinosaur, probably new; skeleton of a small undescribed Dinosaur and of another specimen probably of the same genus, also skeleton of *Champsosaurus*, all from the Hell Creek Beds of central Montana. Collected by Messrs. Brown and Kaison.

#### TERTIARY OF WYOMING.

Collection of fossil mammals from the Wind River formation, containing several new species and genera and better specimens of most of the known Wind River mammals; also a number of specimens of fossil mammals from Upper Eocene and Lower Oligocene formations near Lander, Wyo. Collected by Messrs. Granger, Olsen and Stein.

#### TERTIARY OF EGYPT.

Collection of fossil mammals from the Fluvio-marine formation of the Fayûm district, obtained by Mr. R. Markgraf.

### DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY

#### BY GIFT

#### CLEVELAND H. DODGE FUND.

7 Fossil fishes from various localities selected from the collection of Dr. F. Krantz, Bonn, Germany.

1 *Semionotus capensis*, South Africa.

10 Teeth of *Ptychodus mortoni*, Kansas.

3 Fossil fishes from the Green River shales, Wyoming, as follows:  
1 *Lepidosteus simplex* (the best specimen recorded of this rare form), 1 *Dasyatis radians*, 1 *Priscacara pealei*.

70 Species of fishes collected at Naples by Dr. Louis Hussakof.

15 Species of fishes collected in Denmark by Mr. John T. Nichols.

18 Species of fishes collected on Long Island by Mr. John T. Nichols.

4 Mounted fishes.

4 Fishes for the study collection.

DEPARTMENT OF ANTHROPOLOGY.

12 Species of fishes, collected near Fort Wrangle, Alaska, by Mr. Harlan I. Smith.

OTTO FALKENBACH, New York City.

1 *Fistularia* and 1 *Chilomycterus*.

DR. LOUIS HUSSAKOF, New York City.

5 *Coccoleus minor*, 1 *Palaeospondylus gunni*.

Collection of approximately 200 individuals representing about 20 species, collected at Beaufort, N. C.

MRS. AMY KNIPE, Charleston, S. C.

1 Tooth of *Carcharodon megalodon*.

DR. A. KRAUSSE, Asuni, Sardinia, Italy.

2 Fishes collected in Sardinia.

DR. THEODORE LENS, Military Hospital, Curaçao.

6 Fishes from Curaçao.

PROF. C. F. W. McCLURE, Princeton, N. J.

4 Great Sea Lampreys.

NEW YORK AQUARIUM, New York City.

1 Sand Shark (local).

Collection of fishes (about 100 specimens) mainly from Bermuda.

PEARY EXPEDITION OF 1908.

6 Trout.

FRANK SEELEY, S.S. "Yumuri."

18 Species of fishes from the Gulf of Mexico.

F. S. SWEET, New York City.

1 *Mallotus villosus*.

BY EXCHANGE

AMHERST COLLEGE, Department of Biology.

1 *Ichthyodectes hammatas*.

HANCOCK MUSEUM, Newcastle-on-Tyne, England.

25 Specimens from the coal measures of Northumberland, as follows:

2 *Acanthodopsis wardi*, 7 *Megalichthys hiberni*, 2 *Strepsodus sauroides*, 10 *Ctenodus* and 4 *Gyracanthus tuberculatus*. (These are from the well-known collection of Messrs. Hancock and Atthey.)

NATAL GOVERNMENT MUSEUM, Pietermaritzburg, Natal.

1 South African Sawfish (having six gills), *Pliotrema warreni*.

NEW SOUTH WALES FISHERIES DEPARTMENT, Sydney, Australia.

Several *Hyperlophus spratellides*.

ON DEPOSIT

COLUMBIA UNIVERSITY, New York City, through Department of Zoölogy.

250 Fishes, representing 60 species, from various localities.



## REPTILES AND BATRACHIANS

BY GIFT

## CLEVELAND H. DODGE FUND.

Collection of Amphibians (50 specimens) for use in preparing habitat groups.

1 Galapagos Turtle.

## LEE F. BARNUM, Brooklyn, N. Y.

Various Reptiles and Batrachians.

## CENTRAL PARK MENAGERIE, New York City.

1 Rock Python.

## C. F. CLARKE, Havana, Cuba.

1 Lizard.

## COLUMBIA UNIVERSITY, New York City.

10 Amphibians, mainly African.

## HARRY A. DAVIS, S.S. "Kilpatrick."

1 Banded Sea-snake (*Platurus laticaudatus*) from Manila, P. I.

## WILLIAM T. DAVIS, Staten Island, N. Y.

2 Gray Tree-frogs (*Hyla versicolor*).

## DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.

1 Skin and skull of Crocodile.

6 Snakes from Formosa.

Several Lizard skins from the Philippine Islands.

## DR. T. B. ENDERS, New York City.

2 Snakes and several reptile eggs.

## H. C. FULMER, Stevenson, Ala.

1 Lot of Batrachians.

## A. HERMANN, New York City.

30 Lizards from various localities.

## DR. A. KRAUSSE, Asuni, Sardinia, Italy.

10 Reptiles from Sardinia.

5 Amphibians from Sardinia.

## GNEOMAR VON KROCKOW, Brooklyn, N. Y.

1 Lot of Batrachians and Reptiles.

## DR. THEODORE LENS, Military Hospital, Curaçao.

1 Lot of Lizards.

## NEW YORK AQUARIUM, New York City.

3 Turtles and 3 Crocodiles.

## LORING OLMSTED, City of Mexico.

About 20 Snakes from Mexico.

## DR. ALEXANDER PETRUNKEVITCH, Montclair, N. J.

1 Specimen *Cacilian* from Mexico.

## LOUIS RUHE, New York City.

4 European Tree-frogs (*Hyla arborea*).

## MRS. N. A. SHAW, New York City.

1 Snake.

ALANSON SKINNER, Staten Island, N. Y.

1 Turtle.

DR. ANTHONY WOODWARD, New York City.

1 Snake (*Heterodon platyrhinos*).

CHARLES WUNDER, Dundee Lake, N. J.

1 Snake (*Heterodon platyrhinos*).

BY PURCHASE

1 Bullfrog (*Rana catesbiana*) from Canada.

THROUGH MUSEUM EXPEDITIONS

1 Lot of Reptiles and Batrachians from Ashokan Watershed, N. Y.

Collected by Prof. Aaron L. Treadwell and Mr. Gneomar von Krockow.

1 Lot of Reptiles and Amphibians from Mexico. Collected by Dr. Alexander Petrunkevitch.

DEPARTMENT OF ANTHROPOLOGY

BY GIFT

H. E. BARD, New York City.

Ethnological collection from the Philippine Islands.

MRS. J. B. BLOOMINGDALE, New York City.

Pottery vessel from prehistoric grave at Chepu, Peru; Lapp needle-case from Norway.

GEORGE S. BOWDOIN, New York City.

Basket from South Pacific Islands; feather cape from the Hawaiian Islands.

SAMUEL MORRIS CONANT, Pawtucket, R. I.

Stone arrow point from Thonotosassa, Fla.

KENNETH LEE COONTZ, New York City.

Large grooved stone maul found at Yankton, S. D.

J. L. DAVIDSON, Lockport, N. Y.

Skull and human bones from Indian burial place near Lockport, N. Y.

LIEUTENANT G. T. EMMONS, Princeton, N. J.

Rattle from the Chilcotin of British Columbia.

FLINT & COMPANY, New York City.

Saddle and bridle from Morocco.

MRS. EDNA HILLYER FORD, Wautun, Wis.

11 Photographs of Indians of different tribes.

ROBERT F. GILDER, Omaha, Neb.

Parts of three skulls and two pieces of long bones (human) from the George West Farm Mound near Omaha, Nebraska; 4 pieces of skull and 2 scrapers.

GEORGE BIRD GRINNELL, New York City.

12 Indian saddles; 3 back rests; a stone anvil.

- BENOIT GUERRY, North Conway, N. H.  
Stone ax, North Conway, N. H.
- WILLIAM HAGUE, New York City.  
Contents of an ancient Indian cache in Laurium, Mich.
- EDWARD HAGAMAN HALL, New York City.  
Skeleton of dog (nearly complete) and 6 potsherds from Manhattan Island.
- FRITZ V. HOLM, New York City.  
Set of rubbings of inscription on the Nestorian Tablet in Sian-fu, Shen-si, China.
- DR. U. S. KAHN, New York City.  
Head-dress from Abyssinia.
- CARLOS LARRABURC, Lima, Peru.  
Head-dress of Indians on Rio Ucayali, Peru.
- DR. CARL LUMHOLTZ, New York City.  
Girdle woven by the Mayo Indians, State of Sinaloa, Mexico.
- HON. MASON MITCHELL, Apia, Samoa.  
2 Tibetan scrolls; collection of ancient and modern objects from Tibet and China.
- WILLIAM C. MUSCHENHEIM, New York City.  
Contents of an ancient Indian shell pit, Spuyten Duyvil, New York City.
- DR. FRANCIS C. NICHOLAS, New York City.  
3 Gold nose ornaments (prehistoric) from Yaruman, Colombia.
- GEORGE OLSEN, New York City.  
Fragments of a steatite pot, Wyoming.
- MRS. DAVID PEACOCK, New York City.  
Bow and arrow from South America; carved stick (totem) from Sitka, Alaska.
- PEARY ARCTIC CLUB, New York City.  
Dog sled, snow shoes, cooking apparatus, etc.
- CHARLES PERCY, S.S. "Roosevelt."  
Whalebone dish, Eskimo.
- CHARLES W. PINCKNEY, New York City.  
Catlinite pipe from Yankton, S. D.
- M. F. SAVAGE, New York City.  
6 Steel engravings showing old time customs in Fiji Islands.
- ALANSON SKINNER, Staten Island, N. Y.  
Ojibway cup-and-ball game made of moose bones, from Missanabie, Ontario, Canada; Seneca-Iroquois costume from Cattaraugus Reservation, New York; collections of archæological specimens from Runyon, Middlesex Co., N. J.; 2 silver bracelets of Ojibway Indians; stone celt from South River, N. J.; archæological collection from Staten Island.
- MRS. F. W. SKINNER, Staten Island, N. Y.  
Basket of birch bark, Ojibway; flower cut from birch bark, Ojibway.

MRS. E. SUTTON SMITH.

2 Stone axes from Maine; grape shot dug from Bunker Hill; circular stone dug from Copp's Hill.

HARLAN I. SMITH, New York City.

Pair Chinese slippers.

JOHN I. SOLOMON, New York City.

Ornament carved in ivory. Supposed to be an old piece of Singalese carving.

THE LATE HARRIE HAYDON STARKEY, Brooklyn, N. Y.

Ethnological collection from Alaska.

NORTON B. TILLOTSON, New York City.

Buffalo-horn spoon and wooden bowl from grave near the Black Hills.

DR. W. W. TOMPKINS, Charleston, W. Va.

Grooved stone ax from vicinity of Charleston, W. Va.

CHRISTIAN WEBER, Jersey City, N. J.

7 Pottery vessels from Arkansas.

W. A. WELCH, San Antonio, Amazonas, Brazil.

Jointed arrow for fish from Indians of Rio Beni; paddle from Indians of Rio Beni; paddle from Indians of Madre de Dios; pair rubber shoes and rubber ball from Indians of Upper Madeira, Brazil; 2 gourd baskets from Sarterem on Amazon, Province of Para.

MESSRS. G. L. and F. N. WILSON, Minneapolis, Minn.

Potsherds from Mandan village site, North Dakota.

MRS. CLARK WISSLER, New York City.

Stone celt from Wayne Co., Indiana; gold pendant—human figure with nose ornament and 23 green stone ornaments and beads, from Llanos of Casanari, Colombia.

S. H. WOLF, New York City.

3 Pieces of pottery from Ruins of Jalapa, Mexico.

FRANK WOOD, New Bedford, Mass.

Shell breast plate from New Mecklenburg.

BY EXCHANGE

BERLIN MUSEUM, Berlin, Germany.

21 Casts from stone yokes and palmas, Mexico.

CHICAGO ACADEMY OF SCIENCE, Chicago, Ill.

19 Ethnological specimens from Africa, Abyssinia, Alaska and the United States.

DR. PAUL EHRENREICH, Berlin, Germany.

12 Photographs of Indians of the Rio Purus, Amazonas, Brazil.

L. A. FUERTES, Ithaca, N. Y.

Seal float from the vicinity of Fort Simpson.

FRANK S. GORDON, Blairstown, N. J.

32 Copper bells (prehistoric) from Jalisco, Mexico.

BYRON E. HOOVER, New York City.

Basket from the Yahgan Indians, Tierra del Fuego.

W. K. MOOREHEAD, Andover, Mass.

Archæological material from Jacobs Cavern and village site, McDonald Co., Mo.

NEW YORK STATE MUSEUM, Albany, N. Y.

Archæological material from an Erie Indian village site at Ripley, N. Y.

Collection of Iroquois archæology from New York and New Jersey.

MRS. A. L. ROESLER, New York City.

Baby carrier with quill and bead work from the Dakota, Pine Ridge, S. D.

ROYAL ETHNOGRAPHICAL MUSEUM, Stockholm, Sweden.

Collection of baskets from Africa.

E. THOMPSON SETON, Cos Cob, Conn.

War shirt from the Ogallala Sioux and moose-hide shirt made by Cree Indians.

STÄDTISCHES VÖLKERMUSEUM, Frankfurt a/M., Germany.

Ethnographical material from German Colonies in Africa.

GEORGE C. STONE, New York City.

Chinese gun.

#### THROUGH MUSEUM EXPEDITIONS

Ethnological collection from the Jicarilla Apache of northern New Mexico. Collected by Dr. P. E. Goddard. Provided for by Mr. Archer M. Huntington.

Ethnological and archæological collection from the Penobscot Indians, Old Town, Me. Collected by Mr. William C. Orchard.

Ethnological collection from the Cree and Ojibway of the region of Hudson and James Bays and from the Winnebago of Black River Falls, Wis. Collected by Mr. Alanson Skinner. Provided for by the Morris K. Jesup Fund.

Archæological and ethnological specimens from British Columbia and Alaska. Collected by Mr. Harlan I. Smith. Provided for by the Morris K. Jesup Fund.

Ethnological collection from the Philippine Islands. Collected by Dr. Hugh M. Smith.

Ethnological collection from the Mackenzie River region. Collected by Mr. V. Stefánsson.

Ethnological collection from the Teton Sioux of the Pine Ridge Reservation, South Dakota, and phonograph records from the same. Collected by Dr. J. R. Walker. Provided for by the Morris K. Jesup Fund.

Ethnological collection from the Hidatsa and Mandan of North Dakota. Collected by Rev. Gilbert L. Wilson.

DEPARTMENT OF MINERALOGY

BY GIFT

THE MATILDA W. BRUCE FUND.

- 55 Specimens of minerals, including Antimony, Apatite, Argyrodite, Arsenolite, Benitoite, Beryl, Bakerite, Bismuth, Bismutite, Brochantite, Cassiterite, Cerargyrite, Childrenite, Corundum, Cuprite, Diopside, Dioptase, Graftonite, Hematite, Hexagonite, Iodyrite, Kröhnkite, Malachite, Mullerine, Neptunite, Opal, Orthoclase, Patronite, Phenacite, Phlogopite, Pyrite, Siderite, Silver, Semseyite, Spodumene, Stibiotantalite, Talc, Titanolite, Topaz, Tremolite, Vallerite, Wollastonite, Wurtzite.

W. BOLES BALDWIN, New York City.

- 11 Specimens of Opal from Mexico.

CLARENCE S. BEMENT, Philadelphia, Pa.

- A beautiful group of radiating Tourmaline from Haddam Neck, Conn.

H. BOOTH, Poughkeepsie, N. Y.

- 1 Crystal of Chondrodite, Tilly Foster, Putnam County, N. Y.

W. H. BRADLEY, C. E., New York City.

- One round section (core) taken at 268-foot level below curb, of gneissoid granite, Astoria, L. I.

- One round section (core) taken at 2,000-foot level below curb, of gneissoid granite, Astoria, L. I.

W. A. BUCKNER, Arkansas.

- 3 Specimens of Peridotite from the Ozark Diamond Mining Company's land, on the edge of the diamond-bearing Arkansas Diamond Mining Company's land.

- 1 Specimen of Obsidian, Magnet Cove, Ark.

- 1 Specimen of Lodestone from Magnet Cove, Ark.

H. CLEARY, C. E., New York City.

- Peat specimen from "peat-bog," Centre Street, New York City.

ALBERT S. COFFIN, C. E., New York City.

- Section of drill-core in garnetiferous gneiss, 150 feet below curb, at Eighty-seventh Street and Broadway.

JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.

- 1 Specimen pure lump Graphite from Ceylon.

- 1 Specimen flake Graphite with quartz, Ticonderoga, N. Y.

- 1 Specimen scale gneissoid Graphite, Ticonderoga, N. Y.

- 1 Bottle of lump Graphite, Ceylon, India.

WALTER GRANGER, New York City.

- 1 Specimen of Gypsum from Wind River Formation, Lost Cabin, Wyo.

ALFRED C. HAWKINS, Sewaren, N. J.

- 1 Specimen of cubical Pyrite in Triassic shales, Piscataway, N. J.

J. F. HEMENWAY, New York City.

Octahedral Sphalerite, "Lucky Inn" Mine, Slocan District, near Raslo, B.C.

CHARLES HOFFSTETTER, Jersey City, N. J.

1 Specimen of Septaria; limonite sheathing on crust, Elk Prairie Jefferson Co., Ill.

ROBERT A. A. JOHNSTON, for Canadian Geological Survey.

1 Specimen of Baddeckite from Baddeck, N. S.

A. L. LACK, New York City.

Tourmaline from 181st Street and Lafayette Avenue, New York City.

A. H. PETEKIT, New York City.

1 Specimen of Calcio-Volborthite from Telluride, Col.

DAVID PROSKEY, Nevada.

600 Minute crystals of Gold from ore at Rawhide, Nev.

T. SAUNDERS, New York City.

1 Specimen of Coccolite (pyroxene), Weaverstown, Warren Co. N. Y.

R. B. SPENCE, Elmira, N. Y.

3 Specimens of crystallized Silver in reticulated octahedrons from Nipissing, Ontario, Canada.

Mrs. JAMES SULLIVAN, New York City.

Specimens of various minerals, including Aragonite, Calcite, Natrolite.

OLIVER TIMS, New York City.

1 Specimen of Tourmaline-bearing Rock, Maine.

1 Specimen of Slate, Greenwood Lake, N. J.

BERNARD ZIGRELIUS, New York City.

30 Fragments of Agate, 7 specimens of Copper, 2 specimens of Chlorastrolite, 2 specimens of Thomsonite, from Lake Superior Michigan.

Limestone holding Galena from Isle Royale, Lake Superior.

#### BY EXCHANGE

ROBERT B. GAGE, New Jersey State Survey.

1 Specimen of Emplectite from Cobalt, Ontario, Canada.

3 Specimens of Hydrocuprite from Somerville, N. J.

ALFRED C. HAWKINS, Sewaren, N. J.

1 Specimen of Chrysoberyl from 122d Street and Morningside Park New York City.

H. S. PECK, Albany, N. Y.

1 Specimen of Barite (with Psilomelane) from McCormick, S. C.

1 Specimen of Psilomelane from McCormick, S. C.

1 Specimen of Psilomelane (replacing Asbestos) from McCormick, S. C.

1 Specimen of Siderite (with Barite) from Frostburg, Md.

OTTO F. PFORDTE, Rutherford, N. J.

- 1 Specimen of Breithauptite from Cobalt, Ontario, Canada.
- 1 Specimen of Chalcocite from Franklin Furnace, N. J.
- 1 Specimen of Datolite from W. Paterson, N. J.
- 1 Specimen of Fluorite from Franklin Furnace, N. J.
- 1 Specimen of Heulandite from W. Paterson, N. J.
- 1 Specimen of Galena from Franklin Furnace, N. J.
- 1 Specimen of Galena from Stirling Hill, N. J.
- 1 Specimen of Erythrite from Cobalt, Ontario, Canada.
- 1 Specimen of Franklinite from Franklin Furnace, N. J.
- 1 Specimen of Niccolite from Cobalt, Ontario, Canada.
- 1 Specimen of Pectolite from W. Paterson, N. J.
- 1 Specimen of Phlogopite from Franklin Furnace, N. J.
- 1 Specimen of Smaltite from Cobalt, Ontario, Canada.
- 1 Specimen of Stilbite from W. Paterson, N. J.
- 2 Specimens of Black Willemite from Franklin Furnace, N. J.

MILTON G. SMITH, New York City.

- 4 Specimens of Orthoclase (Sanidine) from Tonapah, Nev.
- 1 Specimen of Trona (crystallized) from Owens Lake, Myo Co., Calif.

BY PURCHASE

- 1 Specimen of Natrolite on Datolite from Bergen Hill, N. J.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY

INVERTEBRATES

BY GIFT

MRS. B. ANDERSON-STIGEN, New York City.

- 3 Pieces of Amber (containing insects).

G. W. J. ANGELL, New York City.

- Various insects from the vicinity of New York and Key West, Fla.

H. G. BARBER, Roselle Park, N. J.

- Various Hemiptera.

WILLIAM C. BARBOUR, Succasunna, N. J.

- 1 Slide of Statoblasts of *Pectinatella magnifica*.

WILLIAM C. BEEBE, New York City.

- 1 Spider (*Admetus pumilio*) and 1 Scorpion (*Centrurus margaritatus*).

REV. T. S. BENDRAT, Boonville, Oneida Co., N. Y.

- 2 Spiders (*Heteropoda vinatoria* L.).

WILLIAM BEUTENMÜLLER, New York City.

- 1 Specimen of *Cicindela patruela*.

E. A. BISCHOFF, Newark, N. J.

- Various Carabidæ.

MRS. J. B. BLOOMINGDALE, New York City.

- 1 Lot of Sponges, Corals, Sea-fans, Echinoderms, Insects and Molluscs.



Mrs. M. H. BRISTOL, New York City.

1 Wasps' Nest from South America.

Mrs. PETER J. BRADY, Brooklyn, N. Y.

1 Trap-door Spider Nest.

Mrs. N. L. BRITTON, New York City.

1 Vial of Annelids from Jamaica and 1 Sponge from the Bahamas.

EDGAR B. BRONSON, New York City.

2 Goliath Beetles and 4 Cetonid Beetles from Africa.

HENRY BROWN, Paris, France.

A small collection of Butterflies and Moths from Europe.

Dr. B. H. BUXTON, Cornell University Medical College, New York City.

4 Myriapods and 6 Arachnids.

C. CHRISTMAN, New York City.

101 Cray-fish (*Cambarus bartonii* Fab.).

C. F. CLARKE, Havana, Cuba.

1 Lot of Scorpions, Millipedes and Spiders.

WILLIAM T. DAVIS, Staten Island, N. Y.

Various Insects, 2 Colonies of *Pectinatella magnifica*, and 1 lot of Annelids and Arachnids.

R. P. DOW, Brooklyn, N. Y.

1 *Clivina impressifrons*.

G. P. ENGELHARDT, Brooklyn, N. Y.

Various Coleoptera.

H. D. EIGHME, Cristobal, Canal Zone, Panama.

1 Goliath Beetle.

EDWARD FORSHAY, New York City.

2 *Callinectes sapidus*.

DWIGHT FRANKLIN, New York City.

2 Horseshoe Crabs (*Limulus polyphemus*).

Col. EDWARD GEBHARD, Bensonhurst, L. I.

4 Lunar Moths and Cocoons.

D. P. GLOVER, Sparta, N. J.

1 Dobson Fly (*Corydalus cornuta*).

EMIL GRAMM, Germantown, Pa.

1 Mantis (*Tenodera sinensis*).

R. M. HARPER, Tallahassee, Fla.

1 Sponge from Everglades, Fla.

EDWARD D. HARRIS, New York City.

30 Cicindelidæ.

A. O. HEINRICH, Baldwin, L. I.

Various Insects and Crustaceans and 1 Fossil Mollusc.

JOHN HISCOX, New York City.

1 Specimen of *Libinia emarginata* with oyster shell on carapace.

Dr. ROBERT T. JACKSON, Cambridge, Mass.

Collection of Echinoderms from various parts of the world, including several rare species.

- J. R. JOHNSON, New York City.  
1 Giant Slug (*Limax maximus*).
- L. H. JOUTELL, New York City.  
2 Perrenyi and 2 Yamamia.
- COUNTESS ALEDA VON KROCKOW, Brooklyn, N. Y.  
1 Lot of Porifera.
- MESSRS. GNEOMAR VON KROCKOW, L. F. BARNUM and OGDEN  
GILES, Brooklyn, N. Y.  
Various Myriapods, Isopods, Spiders, Insects and Molluscs.
- C. W. LENG, New York City.  
Various Insects.
- DR. THEODORE LENS, Military Hospital, Curaçao.  
1 Lot of Myriapods, Insects and Scorpions.
- J. J. LEVISON, Brooklyn, N. Y.  
Exhibit of Insect work and Insecticides.
- W. DEW. MILLER, Plainfield, N. J.  
1 Lot of Myriapods.
- DR. THOMAS H. MONTGOMERY, JR., Philadelphia, Pa.  
Collection of type specimens of Arachnids (Lycosidæ, Pisauridæ).
- NEW YORK AQUARIUM, New York City.  
Various Molluscs, Crustaceans and other Invertebrates.
- C. E. OLSEN, Maspeth, N. Y.  
200 Specimens of various Insects.
- PEARY ARCTIC CLUB, New York City.  
1 Lot of Crustaceans from the Arctic Regions.
- CHARLES PERCY, S.S. "Roosevelt."  
1 Jar with Marine Incrustations.
- DR. ALEXANDER PETRUNKEVITCH, Montclair, N. J.  
1 *Peripatus*, various Arachnids and 1 nest of Trap-door Spider.
- CHARLES L. POLLARD, Staten Island, N. Y.  
A collection of Lepidoptera from various parts of the world.
- C. H. ROBERTS, New York City.  
1 Lot of Coleoptera.
- CAPT. WIRT ROBINSON, West Point, N. Y.  
A small collection of North American Beetles.
- C. SCHAEFFER, Brooklyn, N. Y.  
Various Coleoptera.
- GEORGE H. SHERWOOD, New Rochelle, N. Y.  
1 Beetle.
- C. E. SLEIGHT, Ramsey, N. J.  
About 4,000 Insects from Ramsey, N. J.
- HARLAN I. SMITH, New York City.  
1 Lot of Crustaceans from Alaska.
- J. B. SNIFFIN, New York City.  
Various Crustaceans.
- Miss GEORGINA B. SPOONER, New York City.  
1 Trap-door Spider with nest (*Stasimopus natalensis* Cambridge).

DR. AARON L. TREADWELL, Poughkeepsie, N. Y.

1 Lot of Annelids.

F. E. WATSON.

23 Pupæ of Lepidoptera and 4 parasites.

REV. M. P. WELCHER, Norwalk, Conn.

1 Wasps' Nest and 1 Moth's Cocoon.

H. D. WHITON, New York City.

1 *Vespa crabro* Linn.

CHARLES WUNDER, Dundee Lake, N. J.

1 Lot of Insects.

#### BY EXCHANGE

BROOKLYN MUSEUM, Brooklyn, N. Y.

111 Blown larvæ and 13 pupæ of Lepidoptera.

1 Specimen of *Euplectella aspergillum* from the Sea of Japan.

1 Lot of Invertebrates from the Marine Biological Laboratory,  
Woods Hole, Mass.

#### BY PURCHASE

2 Dozen slides of mounted Rotifera from various parts of the world.

Prepared by Mr. C. F. Rousselet.

1 Lot of dry and alcoholic Insects from Sardinia and other parts of Europe.

1 Collection of Lepidoptera from Jamaica, B. W. I.

1 Lot of Arachnids and Myriapods from Naples, Italy.

1 Lobster from Baldwin, L. I.

1 Specimen of *Nectopilema verrilli* Fewkes.

A valuable collection of North American Tortricidæ containing many types and cotypes.

#### THROUGH MUSEUM EXPEDITIONS

Collection of about 3,500 Arachnids, Myriapods, Insects and Crustaceans from Austin, Tex., and Mexico. Collected by Dr. Alexander Petrunkevitch.

Collection of Molluscs, Crustaceans, Myriapods, Formicidæ, etc., from the South Sea Islands. Collected by Prof. Henry E. Crampton.

1 Crustacean, 2 Squid and 1 Octopus from Naples, Italy. Collected by Dr. L. Hussakof of the Department of Ichthyology and Herpetology.

Various Molluscs and Insects from Cold Spring Harbor, N. Y. Collected by Dr. F. E. Lutz.

Various Annulates, Insects and Spiders from Highwood, N. J. Collected by Dr. F. E. Lutz.

Various Sponges, Crustaceans, Gastropods and Insects from Far Rockaway, L. I. Collected by Dr. F. E. Lutz.

Collection of Annulates from Tortugas, Fla. Collected by Prof. Aaron L. Treadwell.

Collection of Annulates, Insects, Molluscs, Crustaceans, Arachnids, Myriapods and Sponges from the Ashokan Watershed, N. Y. Collected by Prof. Aaron L. Treadwell and Mr. Gneomar von Krockow.

Collection of Marine Invertebrates (Tunicates, Molluscs, Arthropods, Echinoderms, Bryozoans, Parasitic Worms, Coelenterates, and Sponges) from Woods Hole, Mass., and vicinity. Collected by Messrs. Roy W. Miner, H. Mueller and Dwight Franklin.

## TREES

### BY GIFT

MR. EMIL CALMAN, New York City.

2 Blocks of Black Damar Gum.

FRARY MANUFACTURING CO., Charlemont, Mass.

3 Pieces of timber and wood turnings.

REV. M. P. WELCHER, Norwalk, Conn.

Maple and Cherry stems into which Bittersweet had grown.

EDWARD R. LADEW ESTATE, New York City.

1 Piece Hemlock bark, 6 ft. x 12 ft.

EDWARD D. ADAMS, New York City.

Manna lichens, Department of Parks, Manhattan.

Section of Oak tree planted by King Edward VII of England,

October 11, 1860.

## MOLLUSCA

### BY GIFT

JOSEPH MANUEL ANDREINI, New York City.

Miscellaneous collection of shells (bivalves and univalves) comprising *Arca*, *Asaphis*, *Bulla*, *Columbella*, *Cypraea*, *Littorina*, *Margarita*, *Nerita*, *Purpura*, *Trochus*, *Urasalpinx*, from the Island of Sacrificias, Vera Cruz, Mexico.

DEPARTMENT OF ANTHROPOLOGY, through DR. CLARK WISSLER.

1 *Conus hebraeus*, 1 *C. vitulinus*, 3 *Cypraea carneola*, 1 *C. mappa*, 1 *C. testudinaria*, 1 *C. talpa*, 1 *Dolium pomum*, 1 *Latirus sanguifluus*, 1 *Mitra sphaerulata*, 1 *Melampus luteus*, 1 *Natica aurantia*, 1 *N. mamillata*, 1 *Ovulum ovum*, 1 *Terebra maculata*, 1 *T. crenulata*.

WILLIAM BRADY, New York City.

A small collection of shells (bivalves and univalves), comprising *Chione*, *Chama*, *Hemicardium*, *Lavicardium*, *Lima*, *Lucina*, *Natica*, *Nerita*, *Modiola*, *Pecten*, *Pectunculus*, *Purpura*, from Florida and Bahamas.

A. DA COSTA GOMEZ, Brooklyn, N. Y.

2 Specimens of *Camana cicatricosa*, Müll.

1 Specimen of *Meleagrina margaritifera*, coated with *Chama spinosa*, Sow., Gulf of California.

L. P. GRATACAP, New York City.

Some 500 specimens of land and marine shells (including recent fossil forms) from Bermuda.

CHARLES DAYTON GWYER, Brooklyn, N. Y.

1 Specimen of *Pecten irradians*, coated with *Anomia glabra*, showing reproduction of the pecten ribs on the latter. Long Island Sound.

1 Specimen of *Cypræa reticulatus* (diseased) from Sandwich Islands:

4 Specimens of *Oliva melchersi*, Mke., from Gulf of California.

Y. HIRASE, Kyoto, Japan.

*Cardium arenicolum*, *Sunetta excavata*, *Tellina stanwella*, *T. scobinata*; *Cassis saburon*, *Conus marmoreus*, *C. pulicarius*, *Cypræa tigris*, *C. vitellus*, *Haliotis ovina*, *Oliva irisans*, *Strombus aratum*, from Japan.

JAMES W. JUDD, Brooklyn, N. Y.

2 Specimens of *H. (Coryda) alauda*, color variety, from Cuba.

L. MAURER, New York City.

1 Specimen of *Conus fergusonii*, Sow., from Indian Grave, Peru, (a very rare shell).

DR. H. A. PILSBRY, Philadelphia, Pa.

Specimens of *Ashmunella chiricahuana*, Dall, *A. fissideus*, Pils., *A. lepiderma*, Pils., *A. levettei*, Bld., *A. wolkeri*, Ferris, from Florida Mts., N. M.

MRS. JAMES SULLIVAN, New York City.

13 Specimens of bivalves and univalves, including *Anomia*, *Argina*, *Melongenæ*, *Monoceras*, *Nerita*, *Pecten*, *Strombus*, *Triton*, *Turbo*.

CHRISTIAN WEBER, Jersey City, N. J.

Specimens of *Amnicola*, *Lymnaea*, *Physa*, *Planorbis* (2 species), from White Lake, near Blairstown, N. J.

#### BY EXCHANGE

CHARLES DAYTON GWYER, Brooklyn, N. Y.

2 Specimens *Unio (Diplodon) australis*, Lam., from Victoria, Australia.

2 Specimens of *Cardium tenuicostatum*, Lam., from Victoria, Australia.

3 Specimens of *Tapes fumigata*, Sow., from Victoria, Australia.

3 Specimens of *Donax deltoides*, Lam., Victoria, Australia.

1 Specimen of *Mactra rufescens*, Lam., Victoria, Australia.

1 Specimen of *Mactra parva*, Pet., Victoria, Australia.

WILLIAM H. WEEKS, JR., Brooklyn, N. Y.

1 *Pecten hastatus*, Sow., British Columbia.

1 *Pecten irradians*, Linn. (yellow variety), British Columbia.

6 Specimens *rubidus*, Hds., British Columbia.

1 Specimen *Chamostrea albida*, Lam., Victoria, Australia.

2 *Conus anemone*, Lam. (var.), Victoria, Australia.

5 *Natica conica*, Lam., Victoria, Australia.

BY PURCHASE

*Lymnaea stagnalis*, *Planorbis trivolvis* (var. *macrostoma*), from Mackenzie River.

A collection of Jamaican shells, comprising *Helix* (*Thelidomus* and *Pleurodonta*), *Hemitrochus*, *Helicina*, *Proserpina*, *Cyclotus*, *Akadia*, *Cyclostoma*, *Stenogyra*, *Varicella*, *Trochatella*, *Microceramus*, *Urocoptis*, *Brachypodella*, *Physa*.

# INCORPORATION

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## AN ACT

TO INCORPORATE THE

## AMERICAN MUSEUM OF NATURAL HISTORY

Passed April 6, 1869

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*The People of the State of New York, represented in Senate and Assembly, do enact as follows :*

SECTION 1. John David Wolfe, Robert Colgate, Benjamin H. Field, Robert L. Stuart, Adrian Iselin, Benjamin B. Sherman, William A. Haines, Theodore Roosevelt, Howard Potter, William T. Blodgett, Morris K. Jesup, D. Jackson Steward, J. Pierpont Morgan, A. G. P. Dodge, Chas. A. Dana, Joseph H. Choate and Henry Parish, and such persons as may hereafter become members of the Corporation hereby created, are hereby created a body corporate, by the name of "The American Museum of Natural History," to be located in the City of New York, for the purpose of establishing and maintaining in said city a Museum and Library of Natural History; of encouraging and developing the study of Natural Science; of advancing the general knowledge of kindred subjects, and to that end of furnishing popular instruction.\*

SEC. 2. Said Corporation shall have power to make and adopt a Constitution and By-Laws, and to make rules and regulations for the admission, suspension and expulsion of its members, and their government, the number and election of its officers, and to define their duties, and for the safe keeping of its property, and, from time to time, to alter and modify such Constitution, By-Laws, Rules and Regulations. Until

an election shall be held pursuant to such Constitution and By-Laws, the persons named in the first section of this Act shall be, and are hereby declared to be, the Trustees and Managers of said Corporation and its property.

SEC. 3. Said Corporation may take and hold by gift, devise, bequest, purchase or lease, either absolutely or in trust, for any purpose comprised in the objects of the Corporation, any real or personal estate, necessary or proper for the purposes of its incorporation.†

SEC. 4. Said Corporation shall possess the general powers, and be subject to the restrictions and liabilities, prescribed in the Third Title of the Eighteenth Chapter of the First Part of the Revised Statutes, and shall be and be classed as an educational corporation.\*

SEC. 5. This Act shall take effect immediately.

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STATE OF NEW YORK, }  
OFFICE OF THE SECRETARY OF STATE. } ss.:

I have compared the preceding with the original law on file in this office, and do hereby certify that the same is a correct transcript therefrom, and of the whole of said original law.

Given under my hand and seal of Office at the City of Albany,  
[L. s.] this fourteenth day of April, in the year one thousand  
eight hundred and sixty-nine.

D. WILLERS, Jr., *Deputy Secretary of State.*

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† Section 3. As amended by Chapter 303, Laws of 1898, of the State of New York, entitled "An Act to amend chapter one hundred and nineteen, laws of eighteen hundred and sixty-nine, entitled 'An Act to incorporate the American Museum of Natural History,' relative to its charter."

\* Sections 1 and 4. As amended by Chapter 162 of the Laws of 1909, entitled "An Act to amend chapter one hundred and nineteen of the laws of eighteen hundred and sixty-nine, entitled 'An act to incorporate the American Museum of Natural History,' in relation to classifying said corporation and modifying its corporate purposes."



# CONTRACT

## WITH THE DEPARTMENT OF PUBLIC PARKS

FOR THE OCCUPATION OF THE NEW BUILDING

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THIS AGREEMENT, made and concluded on the twenty-second day of December, in the year one thousand eight hundred and seventy-seven, between the DEPARTMENT OF PUBLIC PARKS OF THE CITY OF NEW YORK, the party of the first part, and the AMERICAN MUSEUM OF NATURAL HISTORY, party of the second part, witnesseth:

*Whereas*, by an Act of the Legislature of the State of New York, passed April 22d, 1876, entitled "An Act in relation to the powers and duties of the Board of Commissioners of the Department of Public Parks, in connection with the American Museum of Natural History, and the Metropolitan Museum of Art," the said party of the first part is authorized and directed to enter into a contract with the said party of the second part, for the occupation by it of the buildings erected or to be erected on that portion of the Central Park in the City of New York, known as Manhattan Square, and for transferring thereto and establishing and maintaining therein its museum, library and collections, and carrying out the objects and purposes of said party of the second part; and,

*Whereas*, a building contemplated by said act has now been erected and nearly completed and equipped in a manner suitable for the purposes of said Museum, as provided in the first section of the Act of May 15, 1875, known as Chapter 351, of the Laws of 1875, for the purpose of establishing and maintaining therein the said Museum, as provided by the said last-named act, and by the Act of April 5, 1871, known as Chapter 290, of the Laws of 1871; and,

*Whereas*, it is desired as well by the said party of the first part, as by the said party of the second part, that, immediately upon the completion and equipment of said building, the said party of the second part should be established therein, and should transfer thereto its museum, library and collections, and carry out the objects and purposes of the said party of the second part;

Now, therefore, it is agreed by and between the said parties as follows, namely:

*First.*—That the said party of the first part has granted and demised and let, and doth, by these presents, grant, demise and let, unto the said party of the second part, the said buildings and the appurtenances thereunto belonging, to have and to hold the same so long as the said party of the second part shall continue to carry out the objects and purposes defined in its charter; or such other objects and purposes as by any future amendment of said charter may be authorized; and shall faithfully keep, perform, and observe the covenants and conditions herein contained on its part to be kept, performed and observed, or until the said building shall be surrendered by the said party of the second part, as hereinafter provided.

*Secondly.*—That neither the party of the first part, its successor or successors, nor the Mayor, Aldermen and Commonalty of the City of New York, shall be in any manner chargeable or liable for the preservation of the said building or the property of the party of the second part which may be placed therein, against fire, or for any damage or injury that may be caused by fire to the said property; but it is agreed that, damages as aforesaid excepted, the said party of the first part will keep said building, from time to time, in repair.

*Thirdly.*—That as soon after the completion and equipment of said building as practicable, said party of the second part shall transfer to, and place and arrange in said building, its museum, library and collections, or such portion thereof as can be properly displayed to the public therein, and shall have and enjoy the exclusive use of the whole of said building,

subject to the provisions herein contained, and the rules and regulations herein prescribed, during the continuance of the term granted, or until a surrender thereof, as herein provided.

*Fourthly.*—That the exhibition halls of said building shall, on Wednesday, Thursday, Friday and Saturday of each week, and on all legal or public holidays, except Sundays, be kept open and accessible to the public, free of charge, from nine o'clock A.M. until half an hour before sunset, under such rules and regulations as the party of the second part shall from time to time prescribe; but on the remaining days of the week the same shall be only open for exhibition to such persons, upon such terms as the said party of the second part shall from time to time direct. But all professors and teachers of the public schools of the City of New York, or other institutions of learning in said city, in which instruction is given free of charge, shall be admitted to all the advantages afforded by the said party of the second part, through its museum, library, apparatus, and collections, or otherwise, for study, research and investigation, free of any charge therefor, and to the same extent and on the same terms and conditions as any other persons are admitted to such advantages, as aforesaid.

*Fifthly.*—That the museum, library and collections, and all other property of said party of the second part, which shall or may be placed in said building, shall continue to be and remain absolutely the property of said party of the second part, and neither the said party of the first part nor the said the Mayor, Aldermen and Commonalty, shall by reason of said property being placed in said building, or continuing therein, have any right, title, property or interest therein; nor shall the said party of the second part, by reason of its occupation and use of said building under this agreement, acquire, or be deemed to have any right, title, property or interest in said building, except so far as expressly granted by this agreement.

*Sixthly.*—That the said party of the second part shall, on or before the first day of May, in every year, during the continuance of this agreement, submit to the said party of the first part, its successor or successors, a detailed printed report of the

operations and transactions of the said party of the second part, and all its receipts and payments, for the year ending with the 31st day of December next preceding.

*Seventhly.*—That said party of the first part shall have, at all times, access to every part of the said building for general visitation and supervision, and also for the purpose of the performance of the duties devolved upon it by the laws of the State of New York, or of the City of New York. That the police powers and supervision of said party of the first part shall extend in, through and about said building. That the said party of the second part may appoint, direct, control and remove all persons employed within said building, and in and about the care of said building, and the museum, library and collections therein contained.

*Eighthly.*—That said party of the second part may, at any time, after the expiration of three, and before the expiration of six, months from the date of the service of a notice in writing to said party of the first part, its successor or successors, or to the Mayor of the City of New York, of its intention so to do, quit and surrender the said premises and remove all its property therefrom; and upon and after such notice, the said party of the second part shall and will, at the expiration of the said six months, quietly and peaceably yield up and surrender unto the said party of the first part and its successors all and singular the aforesaid demised premises. And it is expressly understood and agreed by and between the parties hereto that if the said party of the second part shall omit to do, perform, fulfill or keep any or either of the covenants, articles, clauses and agreements, matters and things herein contained, which on its part are to be done, performed, fulfilled or kept, according to the true intent and meaning of these presents, then and from thenceforth this grant and demise shall be utterly null and void. And in such case it shall and may be lawful for said Department to serve or cause to be served on the said party of the second part a notice in writing declaring that the said grant hereinbefore made has become utterly null and void and thereupon the said party of the first part, its successor or successors (ninety days' time being first given to the said party

of the second part to remove its property therefrom), may reënter, and shall again have, repossess and enjoy the premises aforementioned, the same as in their first and former estate, and in like manner as though these presents had never been made, without let or hindrance of the said party of the second part, anything here contained to the contrary notwithstanding.

*Ninthly.*—And it is further expressly understood and agreed, by and between the parties hereto, that this agreement may be wholly canceled and annulled, or, from time to time, altered, or modified, as may be agreed, in writing, between the said parties, or their successors, anything herein contained to the contrary in anywise notwithstanding.

*In witness whereof*, the party of the first part hath caused this agreement to be executed by their President and Secretary, pursuant to a resolution of the Board of Commissioners of said Department, adopted at a meeting held on the thirtieth day of January, in the year of our Lord one thousand eight hundred and seventy-eight; and the said party of the second part hath caused the same to be executed by their President, and their official seal affixed thereto, pursuant to a resolution of the Trustees of the American Museum of Natural History, adopted at a meeting held on the twelfth day of February, in the year of our Lord one thousand eight hundred and seventy-seven.

In presence of  
D. PORTER LORD.

JAMES F. WENMAN,  
*President Department of Public Parks  
of the City of New York.*

WILLIAM IRWIN,  
*Secretary Department of Public Parks  
of the City of New York.*

ROBERT L. STUART,  
*President American Museum of  
Natural History.*

SEAL  
of the American  
Museum of  
Natural History

STATE OF NEW YORK, }  
City and County of New York, } ss. :

On this 12th day of February, in the year 1878, before me personally came James F. Wenman, President of the Department of Public Parks of the City of New York, and William Irwin, Secretary of the said Department of Public Parks, with both of whom I am personally acquainted, and both of whom being by me duly sworn, said that they reside in the City and County of New York ; that the said James F. Wenman is the President, and the said William Irwin is the Secretary of the said Department of Public Parks, and that they signed their names to the foregoing agreement by order of the Board of Commissioners of the said Department of Public Parks, as such President and Secretary.

[SEAL.]

W. C. BESSON,  
(73) *Notary Public N. Y. Co.*

STATE OF NEW YORK, }  
City and County of New York, } ss. :

On this 12th day of February, in the year 1878, before me personally came Robert L. Stuart, the President of the American Museum of Natural History, with whom I am personally acquainted, who being by me duly sworn, said that he resides in the City and County of New York, that he is the President of the American Museum of Natural History, and that he knows the corporate seal of said museum, that the seal affixed to the foregoing agreement is such corporate seal, that it is affixed thereto by order of the Board of Trustees of said American Museum of Natural History, and that he signed his name thereto by the like order, as President of said Museum.

[SEAL.]

W. C. BESSON,  
(73) *Notary Public N. Y. Co.*

Recorded in the office of the Register of the City and County of New York in Liber 1426 of Cons., page 402, February 16, A. D. 1878, at 9 o'clock A.M., and examined.

Witness my hand and official seal,

[SEAL.]

FREDERICK W. LOEW,  
*Register.*

NOTE.—July 25, 1892, by consent of the Trustees, section fourth was modified to enable the Trustees to open the Museum free to the public "throughout the year, excepting Mondays, but including Sunday afternoons and two evenings of each week."

June 29, 1893, by consent of the Trustees, section fourth was modified to enable the Trustees to open the Museum free of charge to the public "throughout the year for five days in each week, one of which shall be Sunday afternoon, and also two evenings of each week."

CONSTITUTION  
OF THE  
AMERICAN MUSEUM OF NATURAL HISTORY  
IN THE CITY OF NEW YORK  
Amended May 10, 1909

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ARTICLE I

This Corporation shall be styled THE AMERICAN MUSEUM OF NATURAL HISTORY.

ARTICLE II

The several persons named in the charter, and such others as they may add to their number, which shall not exceed twenty-five in all at one time, and in addition, the Mayor, the Comptroller, and the President of the Department of Public Parks, of the City of New York, for the time being, *ex-officio*, shall be the Trustees to manage the affairs, property and business of the Corporation.

The members of the Board of Trustees holding office at the time of the regular quarterly meeting of November, 1905, shall then, or at the first meeting of the Board thereafter, be divided by lot into five classes of five members each, to serve for the terms of one, two, three, four and five years respectively from the date of the annual meeting of February, 1906. The Board of Trustees at each annual meeting thereafter, or an adjournment thereof, shall by ballot, by a majority vote of the Trustees present at the meeting, elect five Trustees to supply the places of the class whose term expires at that meeting; said newly elected Trustees to hold office for five years or until their successors are elected. In case of a vacancy in the Board by death, resignation, disqualification or otherwise, the vacancy shall be filled by ballot, in like manner, by the Board of Trustees at any regular meeting or special meeting, for the unexpired term. No person shall be eligible for election as Trustee who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board, nor be

eligible unless his name shall be presented by the Nominating Committee at a regular or special meeting of the Board previous to the meeting at which his name shall be acted upon. Written notice of such election and the vacancy to be filled shall be sent to the Trustees at least one week prior to said meeting.

### ARTICLE III

The Trustees shall meet quarterly, on the second Monday of every February, May, August and November, at an hour and place to be designated, on at least one week's written notice from the Secretary, and shall annually, at the quarterly meeting in February, elect the officers and committees for the ensuing year. They shall also meet at any other time to transact special business on a call of the Secretary, who shall issue such call whenever requested so to do, in writing, by five Trustees, or by the President, and give written notice to each Trustee of such special meeting, and of the object thereof, at least three days before the meeting is held.

### ARTICLE IV

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President, a Treasurer and a Secretary. The President and Vice-Presidents shall be elected from among the Trustees. The Treasurer and Secretary may or may not be chosen from such Trustees. These officers shall be elected by ballot, and the persons having a majority of the votes cast shall be deemed duly elected. They shall hold their offices for one year or until their successors shall be elected.

SEC. 2. The Board of Trustees shall appoint each year, in such manner as it may direct, the following Standing Committees: an Executive Committee, an Auditing Committee, a Finance Committee, a Nominating Committee. These Committees are all to be elected from the Trustees, and the members shall hold office for one year or until their successors shall be elected.



The Board of Trustees shall also have authority to appoint such other committees or officers as they may at any time deem desirable, and to delegate to them such powers as may be necessary.

## ARTICLE V

SECTION 1. The President shall have a general supervision and direction over the affairs of the Corporation, and shall preside at all the meetings of the Museum and of the Trustees. In his absence or inability to act, the First or Second Vice-President shall act in his place.

SEC. 2. The Secretary shall be present, unless otherwise ordered by the Board, at all the meetings of the Museum and Trustees, of the Executive Committee and such other Committees as the Board may direct. He shall keep a careful record of the proceedings of such meetings, shall preserve the seal, archives and correspondence of the Museum, shall issue notices for all meetings of the Trustees and various committees, and shall perform such other duties as the Board may direct.

The Board of Trustees shall have power to appoint an Assistant Secretary, who, under its direction, shall perform the duties of the Secretary in his absence or inability to act.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each quarterly meeting of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the annual meeting of the receipts and disbursements of the past year, with such suggestions as to the financial management of the Museum as he may deem proper.

SEC. 4. The accounts of the Museum shall be kept at the General Office, in books belonging to it, which shall at all times be open to the inspection of the Trustees.

These accounts shall be under the care of an Assistant Treasurer, who shall be appointed by the Board of Trustees and be under its direction. He shall give such bonds for the faithful performance of his duties as the Board may direct.

SEC. 5. The offices of Secretary and Assistant Treasurer may be held by the same person.

#### ARTICLE VI

The Executive Committee shall consist of nine Trustees, of whom the President, First and Second Vice-Presidents and Treasurer, in case he be a Trustee, shall be four, and five other members to be appointed each year in the manner provided in Article IV. They shall have the control and regulation of the collections, library and other property of the Museum; and shall have power to purchase, sell and exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two thousand dollars at one time, or exceeding in all ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees. Five members of the Committee shall constitute a quorum for the transaction of business.

#### ARTICLE VII

The Auditing Committee shall consist of three Trustees. They shall have the books of the Museum duly audited, at least once in six months, by an authorized public accountant to be selected by them.

No bills shall be paid unless approved, in writing, by the President, the Chairman of the Executive Committee, or the Director.

#### ARTICLE VIII

The Finance Committee shall consist of four Trustees, including the Treasurer in case he be a Trustee. They shall have general charge of the moneys and securities of the Endowment and other permanent funds of the Museum, and such real estate as may become the property of the Corporation, with authority to invest, sell and reinvest the same, subject to the approval of the Board of Trustees.

## ARTICLE IX

The Nominating Committee shall be composed of three Trustees, to whom shall be first submitted the names of any persons proposed as candidates for election to membership in the Board of Trustees. The Committee shall report on such candidates from time to time, as it may deem to be for the interest of the Museum. A fortnight before the annual meeting they shall prepare and mail to each member of the Board of Trustees a list of five candidates to be elected by ballot at the said meeting.

## ARTICLE X

The President shall be a member, *ex-officio*, of all standing committees.

## ARTICLE XI

Nine Trustees shall constitute a quorum for the transaction of business, but five Trustees meeting may adjourn and transact current business, subject to the subsequent approval of a meeting at which a quorum shall be present.

## ARTICLE XII

By-Laws may be made from time to time by the Trustees providing for the care and management of the property of the Corporation and for the government of its affairs, and may be amended at any meeting of the Trustees by a vote of a majority of those present, after a month's notice in writing of such proposed amendment.

## ARTICLE XIII

Any person contributing or devising \$50,000 in cash, securities or property to the funds of the Museum may be elected a Benefactor of the Museum.

Any person contributing \$1,000 to the funds of the Museum, at one time, may be elected a Patron of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

Any person contributing \$500, at one time, may be elected a Fellow, who shall have the right to appoint one successor in such fellowship.

*No appointment of a successor shall be valid unless the same shall be in writing, endorsed on the certificate, or by the last will and testament.*

Any person contributing \$100, at one time, may be elected a Life Member.

Any person may be elected to the above degrees, who shall have given to the Museum books or specimens, which shall have been accepted by the Executive Committee, or by the President, to the value of twice the amount in money requisite to his admission to the same degree.

Benefactors, Patrons, Fellows and Life Members shall be elected by the Board of Trustees or by the Executive Committee, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

The Trustees may also elect Honorary Fellows of the Museum in their discretion.

#### ARTICLE XIV

Any person who has held the office of President for ten or more successive years may be elected by the Trustees as Honorary President for life.

#### ARTICLE XV

No alterations shall be made in this Constitution, unless at a regular quarterly meeting of the Trustees, or at a special meeting called for this purpose; nor by the votes of less than a majority of all the Trustees; nor without notice in writing of the proposed alteration, embodying the amendment proposed to be made, having been given at a regular meeting.

# BY-LAWS

Amended May 10, 1909

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## I

Benefactors, giving \$50,000, are each entitled to 1 Subscriber's Ticket, 10 Complimentary Season Tickets and 10 Tickets for a single admission.

Patrons, giving \$1,000, are each entitled to 1 Subscriber's Ticket, 5 Complimentary Season Tickets and 10 Tickets for a single admission.

Fellows, giving \$500, are each entitled to 1 Subscriber's Ticket and 10 Tickets for a single admission.

Life Members, giving \$100, are each entitled to 1 Subscriber's Ticket and 7 Tickets for a single admission.

Sustaining Members, paying \$25 yearly, are each entitled to 1 Subscriber's Ticket and 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket and 4 Tickets for a single admission.

[NOTE.—A Subscriber's Ticket admits to the laboratories and parts of the Museum not open to the public, also to all Receptions and Special Exhibitions, and may be used by any member of the Subscriber's family.

The Single Admission Tickets admit the bearers to the laboratories and parts of the Museum not open to the public, and are issued to Subscribers for distribution among friends and visitors.]

## II

Any Trustee who shall fail to attend three consecutive Regular Quarterly Meetings of the Board shall cease to be a Trustee, unless excused by the Board.

## III

No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employee of the Museum, except as provided for in the Constitution. Any desired additional expenditure shall first receive the approval of the Board of Trustees.

IV

If any Trustee shall accept a salary from this Corporation he shall thereby be disqualified for the time being from acting as a Trustee thereof; provided, that the Board of Trustees shall have power to suspend the operation of this law in any special case.

V

Any vacancies occurring in the membership of the several committees during the interval between the regular meetings of the Board of Trustees may be filled at a regular meeting of the Executive Committee, until the next meeting of the Board.

VI

All bequests or legacies, not especially designated, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

VII

At such times as it may be impracticable to obtain the services of the members of the Auditing Committee, the members of the Executive Committee may act in their place and stead.



FOR THE EQUIPPING AND FINISHING OF THE  
BUILDING AND THE CONSTRUCTION OF  
ADDITIONS THERETO

LEGAL ENACTMENTS OF 1905

BY THE BOARD OF ALDERMEN

AN ORDINANCE providing for an issue of Corporate Stock in the sum of five hundred thousand dollars (\$500,000), to provide means for the equipping and finishing of The American Museum of Natural History in Manhattan Square, Borough of Manhattan, and the construction of additions thereto.

Be it ordained by the Board of Aldermen of the City of New York as follows:

SECTION 1. The Board of Aldermen hereby approves of and concurs in the following resolution adopted by the Board of Estimate and Apportionment March 16, 1905, and authorizes the Comptroller to issue Corporate Stock of The City of New York to the amount and for the purposes therein specified:

*"Resolved,* That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended by chapter 409 of the Laws of 1904, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of the City of New York, to an amount not exceeding five hundred thousand dollars (\$500,000), to provide means for the equipping and furnishing of The American Museum of Natural History in Manhattan Square, Borough of Manhattan, and the construction of additions thereto, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue Corporate Stock of the City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding five hundred thousand dollars (\$500,000), the proceeds whereof to be applied to the purposes aforesaid."

Adopted by the Board of Aldermen April 11, 1905, a majority of all the members elected voting in favor thereof.

Approved by the Mayor April 18, 1905. (Signed) P. J. SCULLY, *Clerk*.

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Contracts awarded to December 31, 1906.

For the erection of Fire Lines, Sprinkler System, Fire Escapes, etc.

Contract awarded R. J. F. Gerstle Company, November 26, 1905, \$19,838.

Completed January 11, 1907.

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For the erection and completion of a New Wing, to be known as the South Wing of the West Façade, and a Permanent Cellar Passageway running therefrom in northerly and easterly direction.

Contract awarded Guidone & Galardi, May 22, 1906, \$325,000.

Completed June 6, 1908.

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For the construction of a Service Roadway from Ninth Avenue to and under the New South Wing of the West Façade.

Contract awarded Atlanta Contracting Company, July 1, 1909, \$26,000.



**APPROPRIATIONS AND EXPENDITURES MADE THEREON  
TO DECEMBER 31, 1909**

**APPROPRIATION:**

By Direct Appropriation.....	\$500,000 00	
Premium on Sale of Bonds.....	10,883 92	
		<u>\$510,883 92</u>

**EXPENDITURES:**

Guidone & Galardi.....	\$325,600 00	
Charles Volz, Architect's Fees....	16,279 95	
R. J. F. Gerstle Co.....	19,838 00	
Charles Volz, Architect's Fees....	991 89	
Atlanta Contracting Co.....	26,000 00	
Charles Volz, Architect's Fees....	1,300 00	
Cady, Berg & See.....	6,935 71	
Harlem Contracting Co.....	4,652 94	
George H. Storm & Co.....	1,725 16	
Pittsburgh Plate Glass Co.....	1,696 77	
M. G. Reeves.....	1,596 00	
Connecticut Dynamo & Motor Co..	875 09	
Museum Orders.....	34,710 08	
Carpenters' Payroll, etc.....	61,517 53	
		<u>\$503,719 12</u>
Outstanding Open Market Orders.....	5,270 26	<u>\$508,989 38</u>
Available Balance Dec. 31, 1909.....		<u>\$1,894 54</u>

# FOR FURNISHING AND EQUIPPING THE AMERICAN MUSEUM OF NATURAL HISTORY

LEGAL ENACTMENTS OF 1909

BY THE BOARD OF ALDERMEN

AN ORDINANCE providing for an issue of Corporate Stock in the sum of one hundred thousand dollars (\$100,000), to provide means for furnishing and equipping The American Museum of Natural History, Seventy-seventh Street and Columbus Avenue, Borough of Manhattan.

Be it ordained by the Board of Aldermen of The City of New York as follows:

SECTION 1. The Board of Aldermen hereby approves of and concurs in the following resolution adopted by the Board of Estimate and Apportionment July 2, 1909, and authorizes the Comptroller to issue Corporate Stock of The City of New York to the amount and for the purposes therein specified:

*“Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of The City of New York, to an amount not exceeding one hundred thousand dollars (\$100,000), to provide means for furnishing and equipping The American Museum of Natural History, Seventy-seventh Street and Columbus Avenue, Borough of Manhattan, and when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue Corporate Stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one hundred thousand dollars (\$100,000), the proceeds whereof to be applied to the purposes aforesaid.”*

Adopted by the Board of Aldermen July 13, 1909, a majority of all the members elected voting in favor thereof.

Approved by the Mayor July 26, 1909.

(Signed) P. J. SCULLY, *Clerk.*

# LIST OF MEMBERS

## PATRONS

*By contribution of \$1,000 or upwards, or through honorary election*

EDWARD D. ADAMS.  
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HICKS ARNOLD.\*  
RICHARD ARNOLD.\*  
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D. N. BARNEY.\*  
JAMES GORDON BENNETT.  
FREDERICK BILLINGS.\*  
HEBER R. BISHOP.\*  
GEORGE BLISS.\*  
GEORGE T. BLISS.\*  
Miss SUSAN DWIGHT BLISS.  
WILLIAM T. BLODGETT.\*  
ROBERT BONNER.\*  
HENRY BOOTH.  
M. C. D. BORDEN.  
J. A. BOSTWICK.\*  
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GEORGE DEXTER BRADFORD.\*  
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Miss MATILDA W. BRUCE.\*  
HERMON C. BUMPUS.  
JOHN L. CADWALADER.  
MRS. ANDREW CARNEGIE.  
Dr. WALTER CHANNING.  
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JONAS G. CLARK.\*  
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ROBERT COLGATE.\*  
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PETER COOPER.\*  
AUSTIN CORBIN.\*

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JOHN J. CROOKE.  
CORNELIUS C. CUYLER.\*  
THOMAS DE WITT CUYLER.  
W. M. DONGAN DE PEYSTER.  
L. P. DI CESNOLA.\*  
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CLEVELAND H. DODGE.  
WILLIAM E. DODGE, 1st.\*  
WILLIAM E. DODGE, 2d.\*  
MRS. WILLIAM E. DODGE.\*  
JAMES DOUGLAS.  
ANDREW E. DOUGLASS.\*  
JOSEPH W. DREXEL.\*  
D. G. ELLIOT.  
MRS. M. SCHUYLER ELLIOT.  
JAMES R. ELY.  
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CYRUS W. FIELD.\*  
CYRUS W. FIELD, Jr.\*  
Prof. AUGUSTE FOREL.  
WILLIAM T. GARNER.\*  
ELBRIDGE T. GERRY.  
ROBERT W. GOELET.  
LUDWIG MAX GOLDBERGER.  
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JOHN A. C. GRAY.\*  
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OLIVER HARRIMAN.\*  
HENRY O. HAVEMEYER.\*  
THEODORE A. HAVEMEYER.\*  
GEORGE G. HAVEN.\*  
GEORGE A. HEARN.  
ABRAM S. HEWITT.\*  
MRS. ABRAM S. HEWITT.  
Very Rev. E. A. HOFFMAN, D.D., LL.D.\*  
MRS. EUGENE A. HOFFMAN.  
SAMUEL V. HOFFMAN.  
ARCHER M. HUNTINGTON.  
C. P. HUNTINGTON.\*  
MRS. C. P. HUNTINGTON.

\* Deceased

B. H. HUTTON.\*  
 B. T. BABBITT HYDE.  
 Dr. FREDERICK E. HYDE.  
 FREDERICK E. HYDE, Jr.  
 JAMES H. HYDE.  
 ADRIAN ISELIN.\*  
 ADRIAN ISELIN, Jr.  
 ARTHUR CURTISS JAMES.  
 D. WILLIS JAMES.\*  
 CHARLES M. JESUP.  
 MORRIS K. JESUP.\*  
 Mrs. MORRIS K. JESUP.  
 H. J. JEWETT.\*  
 J. TAYLOR JOHNSTON.\*  
 A. D. JUILLIARD.  
 JAMES R. KEENE.  
 GUSTAV E. KISSEL.  
 CHAS. G. LANDON.\*  
 CHARLES LANIER.  
 Lord LEITH OF FYVIE.  
 JAMES LENOX.\*  
 ADOLPH LEWISOHN.  
 Com. C. A. M. LIEBRECHTS.  
 JOSEPH F. LOUBAT.  
 SETH LOW, LL.D.  
 JOHN B. MARCOU.  
 PHILLIPE MARCOU.  
 EDWARD MATTHEWS.  
 FRANCIS O. MATTHIESSEN.\*  
 GEORGE B. MCCLELLAN.  
 Dr. EDGAR A. MEARNS, U.S.A.  
 HERMAN A. METZ.  
 D. O. MILLS.  
 MASON MITCHELL.  
 J. PIERPONT MORGAN.  
 J. PIERPONT MORGAN, Jr.  
 HENRY FAIRFIELD OSBORN.  
 WM. CHURCH OSBORN.  
 Mrs. WM. H. OSBORN.\*  
 OSWALD OTTENDORFER.\*  
 JOHN E. PARSONS.  
 GEORGE FOSTER PEABODY.  
 Dr. WM. PEPPER.\*  
 I. N. PHELPS.\*  
 S. WHITNEY PHOENIX.\*  
 HENRY CLAY PIERCE.  
 HENRY W. POOR.  
 PERCY R. PYNE.\*  
 PERCY R. PYNE.  
 J. HAMPDEN ROBB.  
 COLEMAN T. ROBINSON.\*

JOHN D. ROCKEFELLER.  
 JOHN D. ROCKEFELLER, Jr.  
 WM. ROCKEFELLER.  
 Col. ARCHIBALD ROGERS.  
 THEODORE ROOSEVELT.\*  
 THEODORE ROOSEVELT.  
 WM. SCHAUS.  
 WILLIAM C. SCHERMERHORN.\*  
 JACOB H. SCHIFF.  
 HENRY SELIGMAN.  
 JESSE SELIGMAN.\*  
 EDWARD M. SHEPARD.  
 BENJAMIN B. SHERMAN.\*  
 WM. D. SLOANE.  
 JAMES BAKER SMITH.\*  
 CATHERINE L. SPENCER.\*  
 FREDERIC W. STEVENS.  
 D. JACKSON STEWARD.\*  
 A. T. STEWART.\*  
 JAMES STOKES.\*  
 J. G. PHELPS STOKES.  
 ALEXANDER STUART.\*  
 ROBERT L. STUART.\*  
 Mrs. ROBERT L. STUART.\*  
 APPLETON STURGIS.\*  
 Dr. ELIZABETH M. STURGIS.  
 Mrs. FRANK K. STURGIS.  
 JOHN T. TERRY, Jr.  
 Rev. RODERICK TERRY, D.D.  
 Mrs. F. F. THOMPSON.  
 EDWIN THORNE.  
 JOEL WOLFE THORNE.  
 JONATHAN THORNE.\*  
 JONATHAN THORNE.  
 Miss PHEBE ANNA THORNE.\*  
 SAMUEL THORNE.  
 VICTOR CORSE THORNE.  
 JOHN B. TREVOR.\*  
 JOHN B. TREVOR.  
 Mrs. JOHN B. TREVOR.  
 C. VANDERBILT.\*  
 GEO. W. VANDERBILT.  
 W. K. VANDERBILT.  
 HAROLD GARRISON VILLARD.  
 HENRY VILLARD.\*  
 EDWIN H. WEATHERBEE.  
 Dr. WILLIAM M. WHEELER.  
 WILLIAM C. WHITNEY.\*  
 RICHARD T. WILSON.  
 Miss C. L. WOLF.\*  
 JOHN D. WOLFE.\*

\* Deceased

## FELLOWS

*By contribution of \$500, or through honorary election*

JOHN ALSTYNE.\*  
 SAMUEL P. AVERY.\*  
 CHARLES T. BARNEY.\*  
 THOMAS BARRON.\*  
 CORTLANDT FIELD BISHOP.  
 DAVID WOLFE BISHOP.  
 GEORGE BLISS.\*  
 ROBERT S. BREWSTER.  
 STEWART BROWN.\*  
 WM. LANMAN BULL.  
 JOHN L. CADWALADER.  
 JAMES C. CARTER.\*  
 CHARLES W. CASS.\*  
 GEORGE W. CASS.\*  
 Prof. CHAS. F. CHANDLER.  
 Mrs. GEO. W. COLLORD.\*  
 HANSON K. CORNING.\*  
 Mrs. RICHARD P. DANA.\*  
 ALFRED B. DARLING.\*  
 WM. EARL DODGE, 4th.  
 ABRAM DUBOIS.\*  
 CYRUS W. FIELD, Jr.\*  
 JOSIAH M. FISKE.\*  
 H. M. FLAGLER.  
 ROBERT GORDON.  
 GEORGE G. GRAY.\*  
 CHARLES W. GRISWOLD.\*  
 JAMES B. HAGGIN.  
 F. R. HALSEY.  
 Miss LAURA P. HALSTED.  
 WM. H. HARBECK.\*  
 Mrs. HENRY O. HAVEMEYER.  
 SAMUEL HAWK.\*  
 VeryRev. E. A. HOFFMAN, D.D., LL.D.\*  
 H. B. HOLLINS.  
 MEREDITH HOWLAND.\*  
 SAMUEL N. HOYT.\*  
 D. B. IVISON.\*  
 CHARLES M. JESUP.  
 AYMAR JOHNSON.  
 JAMES H. JONES.  
 GOUVERNEUR KEMBLE.\*

ROBERT LENOX KENNEDY.\*  
 WHEATON B. KUNHARDT.  
 Prof. WILLIAM LIBBEY, JR.  
 A. A. LOW.\*  
 HENRY G. MARQUAND.\*  
 SAMUEL F. B. MORSE.\*  
 RICHARD MORTIMER, JR.  
 LEVI P. MORTON.  
 FRANCIS CHILD NICHOLAS, Ph.D.  
 LLOYD PHENIX.  
 PHILLIPS PHENIX.  
 HENRY W. POOR.  
 HOWARD POTTER.\*  
 O. B. POTTER.\*  
 Dr. WILLIAM W. RADLOFF.  
 MARSHALL O. ROBERTS.\*  
 JOHN D. ROCKEFELLER.  
 C. V. S. ROOSEVELT.\*  
 F. AUGUSTUS SCHERMERHORN.  
 H. M. SCHIEFFELIN.\*  
 Mrs. HARRIET L. SCHUYLER.  
 PHILIP SCHUYLER.\*  
 CHARLES H. SENFF.  
 ELLIOTT F. SHEPARD.\*  
 JOHN SLOANE.\*  
 JOHN SNEDEN.\*  
 CHARLES D. STICKNEY.  
 Miss CAROLINE PHELPS STOKES.\*  
 Miss OLIVIA E. PHELPS STOKES.  
 Mrs. FRANK K. STURGIS.  
 RUTHERFURD STUYVESANT.\*  
 JOHN T. TERRY.  
 LEWIS S. THOMPSON.  
 JAMES THOMSON.\*  
 TIFFANY & Co.  
 LUCIUS TUCKERMAN.\*  
 H. MCK. TWOMBLY.  
 Gen. EGBERT L. VIELE, U.S.A.\*  
 THOS. A. VYSE, Jr.  
 SAMUEL WILLETS.\*  
 Mrs. ROBERT WINTHROP.  
 R. A. WITTHAUS, M.D.

Miss CAROLA WOERISHOFFER.

## HONORARY FELLOWS

Dr. BASHFORD DEAN.  
 \* Deceased

Baron LUDOVIC MONCHEUR.

## LIFE MEMBERS

*By contribution of \$100, or through honorary election*

ERNEST KEMPTON ADAMS.\*  
 C. R. AGNEW.  
 G. B. AGNEW.  
 JOHN E. ALEXANDRE.  
 Admiral E. ALEXEIEFF.  
 RICHARD H. ALLEN.\*  
 BERNARD G. AMEND.  
 Mrs. BLANCHE L. ANDREWS.  
 CONSTANT A. ANDREWS.  
 FRANCIS R. APPLETON.  
 Mrs. MARTIN ARCHER-SHEE.  
 S. T. ARMSTRONG, M.D.  
 B. G. ARNOLD.\*  
 JOHN JACOB ASTOR.  
 J. T. ATTERBURY.  
 Mrs. EMMA B. AUCHINCLOSS.  
 HUGH D. AUCHINCLOSS.  
 Miss FLORENCE AUDUBON.  
 Miss MARIA R. AUDUBON.  
 SAMUEL P. AVERY.\*  
 SAMUEL P. AVERY.  
 Mrs. JAMES C. AYER.\*  
 Miss E. AYMAR.  
 JAMES A. BAILEY.\*  
 JAS. MUHLENBERG BAILEY.  
 EDWIN SWIFT BALCH.  
 JOSEPH C. BALDWIN.  
 DAVID BANKS.  
 HENRY I. BARBEY.\*  
 Mrs. P. HACKLEY BARHYDT.  
 THOMAS BARING.  
 FORDYCE BARKER, M.D.\*  
 Miss CORA F. BARNES.  
 JOHN S. BARNES.  
 JOHN HENDLEY BARNHART, M.D.  
 J. O. BARTHOLOMEW.\*  
 W. H. BEADLESTON.\*  
 GEORGE E. BELCHER, M.D.\*  
 BERTRAND F. BELL.  
 C. M. BELL, M.D.\*  
 DENNISTOUN M. BELL.  
 GORDON KNOX BELL.  
 AUGUST BELMONT.  
 THEODORE BERDELL.\*  
 JOHN E. BERWIND.  
 SAMUEL R. BETTS.

Mrs. ALBERT BIERSTADT.  
 JOHN BIGELOW.  
 FREDERICK BILLINGS.  
 Mrs. EMMONS BLAINE.  
 T. W. BLAKE.  
 Miss CATHERINE A. BLISS.  
 CORNELIUS N. BLISS.  
 CORNELIUS N. BLISS, Jr.  
 GEORGE BLUMENTHAL.  
 EDWARD C. BOHDE.  
 A. K. BOLAN.  
 GEORGE C. BOLDT.  
 W. B. BOURN.  
 FREDERICK G. BOURNE.  
 Mrs. TEMPLE BOWDOIN.  
 GEORGE W. BRACKENRIDGE.  
 Mrs. WM. H. BRADFORD, Sr.  
 HENRI M. BRAEM.\*  
 COURTNEY BRANDRETH.  
 BENJAMIN BREWSTER.  
 GEORGE S. BREWSTER.  
 WILLIAM BREWSTER.  
 CHARLES LYMAN BRINSMADÉ.  
 CHAS. P. BRITTON.  
 ADDISON BROWN.  
 FRANK G. BROWN.\*  
 GEORGE H. BROWN.\*  
 GEO. MCKESSON BROWN.  
 JAMES M. BROWN.\*  
 J. HULL BROWNING.  
 Miss MATILDA W. BRUCE.\*  
 DAVID LONEY BRUCE-BROWN.  
 WILLIAMSON BUCKMAN.  
 R. L. BURTON.  
 JOSEPH BUSHNELL.  
 THOMAS C. BUSHNELL.\*  
 B. H. BUXTON.  
 JOHN L. CADWALADER.  
 Mrs. ALEX. CAMERON.  
 Miss KATHARINE L. CAMMANN.  
 CHAS. M. CAULDWELL, M.D.  
 ISAAC P. CHAMBERS.\*  
 C. W. CHAPIN, Jr.  
 S. B. CHAPIN.  
 Mrs. GEO. H. CHATILLON.  
 HENRY CHAUNCEY.

\* Deceased

J. E. CHILDS.  
 HUGH J. CHISHOLM.  
 E. DWIGHT CHURCH.\*  
 FREDERIC E. CHURCH.\*  
 JAMES A. CHURCH.  
 LESTER B. CHURCHILL.  
 AUGUSTUS L. CLARKSON.  
 BANYER CLARKSON.  
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 CHAS. D. CLEVELAND.  
 TREADWELL CLEVELAND.  
 HENRY CLEWS.  
 W. R. COE.  
 CHARLES L. COLBY.\*  
 W. W. COLE.  
 BIRD S. COLER.  
 EDWARD COLGATE.\*  
 WILLIAM COLGATE.  
 Miss GEORGETTE T. A. COLLIER.  
 Miss ELLEN COLLINS.  
 SAMUEL D. COLLINS.  
 GEORGE W. COLLORD.  
 SAMUEL POMEROY COLT.  
 Mrs. WILLIAM COMBE.  
 FRED. H. COMSTOCK.  
 WASHINGTON E. CONNOR.  
 CHARLES H. CONTOIT.\*  
 WM. L. CONYNGHAM.\*  
 HENRY H. COOK.\*  
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 THEODORE COOPER.  
 R. R. CORNELL.  
 JOHN J. CORNING.  
 Mrs. SALLY MORRIS CORY.  
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 Miss ELLEN H. COTHEAL.  
 DAVIES COXE, M.D.\*  
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 S. D. COYKENDALL.  
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 FREDERIC CROMWELL.  
 JAMES CRUIKSHANK.\*  
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 CHAS. M. DA COSTA.\*  
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 A. DALRYMPLE.\*

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 EDMUND W. DAVIS.\*  
 WM. T. DAVIS.  
 CHAS. STEWART DAVISON.  
 HENRY J. DAVISON.\*  
 THOMPSON DEAN.\*  
 E. J. DE COPPET.  
 GEORGE B. DE FOREST.  
 S. DEJONGE.  
 ALBERT DELAFIELD.  
 LEWIS L. DELAFIELD.  
 HENRI DECKERT DE LA MEILLAIÉ.  
 EUGENE DELANO.  
 J. H. DE MOTT.\*  
 WILLIAM DEMUTH.  
 Gen. J. WATTS DE PEYSTER.\*  
 HENRY A. C. DE RUBIO.  
 F. W. DEVOR.  
 WILLIAM G. DE WITT.  
 ANTHONY DEY.  
 W. B. DICKERMAN.  
 J. W. DIMICK.  
 CLEVELAND H. DODGE.  
 NORMAN W. DODGE.\*  
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 PETER DONALD.  
 T. E. DONNE.  
 E. J. DONNELL.\*  
 JAMES DOUGLAS.  
 ANDREW E. DOUGLASS.\*  
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 Miss ETHEL DU BOIS.  
 WILLIAM A. DU BOIS.  
 EDWARD L. DUFOURCQ.  
 R. G. DUN.\*  
 WM. BUTLER DUNCAN.  
 Dr. CARROLL DUNHAM.  
 Dr. EDWARD K. DUNHAM.  
 JAMES H. DUNHAM.\*  
 Dr. THEODORE DUNHAM.  
 GEO. ELSWORTH DUNSCOMBE.  
 THOMAS T. ECKERT, Jr.  
 Mrs. DAVID S. EGGLESTON.  
 GEORGE EHRET.  
 CARL EICKEMEYER.  
 SAMUEL ELLIOTT.  
 JAMES W. ELLSWORTH.

\* Deceased

AMBROSE K. ELY.\*  
 AMOS F. ENO.  
 DR. HENRY C. ENO.  
 WM. P. ENO.  
 A. F. ESTABROOK.  
 ALLEN W. EVARTS.  
 ALESSANDRO FABBRI.  
 MRS. ERNEST A. FAIRCHILD.  
 EDWARD J. FARRELL.  
 DANIEL B. FEARING.  
 Rev. Dr. HENRY FERGUSON.  
 CORTLANDT DE PEYSTER FIELD.  
 JOHN FITCH.\*  
 WM. L. FLANAGAN.\*  
 Prof. A. E. FOOTE.\*  
 JAMES B. FORD.  
 JAMES FRASER.\*  
 C. LINCOLN FREE.  
 FRANCIS P. FREEMAN.\*  
 MRS. JOHN FRENCH.  
 SETH BARTON FRENCH.  
 CHILDS FRICK.  
 GEORGE GARR.\*  
 E. H. GARY.  
 I. E. GATES.  
 WILLIAM H. GEBHARD.\*  
 THEODORE K. GIBBS.\*  
 PARKE GODWIN.\*  
 P. J. GOODHART.  
 Dr. FREDERIC G. GOODRIDGE.  
 JAMES J. GOODWIN.  
 STEPHEN T. GORDON.\*  
 GEORGE SCOTT GRAHAM.  
 MADISON GRANT.  
 NORMAN GRANT.  
 HORACE GRAY.\*  
 JOHN CLINTON GRAY.  
 ANDREW H. GREEN.\*  
 MORRIS M. GREEN.  
 JOHN GREENOUGH.  
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 JOHN N. A. GRISWOLD.\*  
 JAMES B. M. GROSVENOR.\*  
 DANIEL GUGGENHEIM.  
 S. R. GUGGENHEIM.  
 BERNARD G. GUNTHER.

FRANKLIN L. GUNTHER.  
 WILLIAM D. GUTHRIE.  
 ALEX. HADDEN, M.D.  
 JOHN A. HADDEN.\*  
 Miss E. S. HAINES.  
 JOHN P. HAINES.  
 RICHARD T. HAINES.\*  
 W. A. HAINES.  
 Mrs. W. A. HAINES.\*  
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Cummings, Richard  
Curie, Charles  
Curiel, H.  
Curley, E. J.  
Curtis, G. Warrington  
Curtis, Ronald Eliot  
Curtis, Warren  
Curtis, W. J.  
Curtis, Wm. Edmond  
Cutter, Ralph L.  
Cutting, Robt. Fulton  
Cutting, W. Bayard  
Cuyler,  
Miss Eleanor de Graff

Daily, George M.  
Dalley, Henry  
Dana, Wm. B.  
Dananbaum, M. C.  
Danforth,

Mrs. George H.  
Davenport, Mrs. Ira  
Davies, J. Clarence  
Davies, William G.  
Davis, Charles H.  
Davis, Daniel A.  
Davis, David T.  
Davis, Joseph P.  
Davison, Alvah  
Dazian, Henry  
Deal, Edgar  
Dean, Geo. Hamilton  
Deane, John H.  
de Bary, A.  
De Buys, A.  
de Coppet, Henry  
Deery, John J.  
Deeves, Richard  
de Forest, H. W.  
de Forest, Robert W.  
de Forest,

Mrs. Robert W.  
Degener, John F.  
Degener, John F., Jr.  
Degener, Rudolph  
De Klyn, B. F.  
Delafield, Maturin L.

Delano, Moreau  
Delano, Warren  
Delavan, D. B., M.D.  
Demorest, Wm. C.  
Denham, William R.  
Dennis, John B.  
Denny, Mrs. Lucy W.  
De Peyster,  
Miss C. Augusta  
De Puy, H. F.  
de Rham, H. Casimir  
Despard, Walter D.  
De Vinne, Theo. L.  
De Witt, George G.  
Dexter, Henry  
Deyo, Robert E.  
Dick, Harris B.  
Dick, J. Henry  
Dickey, Charles D.  
Dickie, E. P.  
Diefenthaler, Charles E.  
Diestel, Wm.  
Dieterich, Chas. F.  
Dill, Miss Mary A.  
Dillingham, E. R.  
Dillon, John M.  
Dimock, Geo. E.  
Dimock, Henry F.  
Dodge, Rev. D. Stuart  
Dodge, Miss Grace H.  
Doelger, Charles P.  
Doelger, Peter, Jr.  
Dolan, Mrs. Clarence W.  
Doll, Jacob  
Dominick, Bayard, Jr.  
Dommerich, L. F.  
Doremus, R. P.  
Dormitzer, Henry  
Dorsett, R. Clarence  
Doughty, Mrs. Alla  
Douglass, Alfred  
Douglass, Benjamin, Jr.  
Douglass, Mrs. R. Dun  
Dow, Mrs. Frederic G.  
Dowd, Joseph  
Downey, John I.  
Dows, Mrs. David

Drake, Miss Mary E.  
Drakenfeld, B. F.  
Draper, Chas. A.  
Draper, Charles D.  
Drayton, J. Coleman  
Dreier, Carl  
Drey, Morris  
Dreyer, John P.  
Drummond, I. Wyman  
Duane, James May  
Du Bois, F. N.  
DuBois, Miss Katharine  
DuBois, Dr. Matthew B.  
Dudley, P. H.  
Dulles, William  
Duncan, Mrs. John P.  
Duncan, Stuart  
Dunham,

Mrs. George H.  
Dunham, H. F.  
Dunlap, Mrs. R.  
Dunn, Gano  
Durkee, Eugene W.  
Dutcher, William  
Dutton, Charles T.  
Dwight, John E.  
Dwight, Dr. Jonathan, Jr.

Eaton, Geo. Dummer  
Edgar, Daniel  
Edgell, George S.  
Edmonds, John W.  
Edson, Jarvis B.  
Edwards, R. L.  
Eekhoff, Herman J.  
Ehrich, Jules S.  
Ehrich, Mrs. Wm. J.  
Eilbeck, J. H.  
Eilers, Karl  
Eilshemius, Henry G.  
Eimer, A. O.  
Eimer, August  
Einstein, I. D.  
Elliott, Mrs. George  
Ellis, John W.  
Ellis, W. H.  
Ellis, Wm. D.



- Ely, Fredk. G.  
 Emanuel, John H., Jr.  
 Embury, Miss Emma C.  
 Emery, Charles G.  
 Emmet, C. Temple  
 Emmet, Miss Lydia F.  
 Emmet, Robert Temple  
 Engle, Robt. H.  
 Eno, John Chester  
 Erbsloh, R.  
 Erdmann, Martin  
 Erstein, Leopold  
 Ettlinger, Louis  
 Evans, Richard  
 Evans, William T.  
 Ewing,  
     Mrs. Thomas, Jr.  
  
 Fabbri, Ernesto G.  
 Fahnestock, H. C.  
 Faile, Charles V.  
 Fairbanks, Henry P.  
 Fairchild, Charles S.  
 Fairchild, S. W.  
 Fargo, James C.  
 Farish, John B.  
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     Mrs. Horace P.  
 Farragut, Loyall  
 Fatman, Morris  
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 Fearons, George H.  
 Fellows, Wm. Gordon  
 Ferguson, Alfred L.  
 Ferguson, Mrs. Farquhar  
 Ferguson, Harry L.  
 Ferris, Frank A.  
 Field, Wm. B. Osgood  
 Field,  
     Mrs. Wm. B. Osgood  
 Fischer, T. Tasso  
 Fisher, L. G.  
 Fitz-Simon, Mrs. Wm.  
 Flagler, Harry Harkness  
 Flint, Dr. Austin, Jr.  
 Flint, Chas. R.  
 Flower, Frederick S.  
  
 Floyd-Jones, Edward H.  
 Fohr, Franz  
 Follmer, Charles J.  
 Foot, Miss Katharine  
 Fordyce, Dr. John A.  
 Forster, Wm.  
 Forsyth, Robert  
 Foster, Edward W.  
 Foster, J. Hegeman  
 Foster, Scott  
 Frankenberg, W. V.  
 Frankfield, A.  
 Fraser, Alfred  
 Fraser, Mrs. Geo. S.  
 Fraser, Miss J. K.  
 Freedman, Andrew  
 French, Daniel C.  
 French, Mrs. Daniel C.  
 French, Richmond S.  
 French, S. A.  
 Frew, Walter E.  
 Fried, Samson  
 Friedlander, Louis  
 Fries, Miss Emilie  
 Frissell, A. S.  
 Frye, Jed  
 Fuld, Felix  
 Fulda, Clemens, M.D.  
 Fuller, Mrs. Eugene  
 Furst, Arnold S.  
  
 Gade, W. F.  
 Gale, Miss Margaret E.  
 Gallaway, Robert M.  
 Gannon, F. S.  
 Gardin, John E.  
 Gardiner, James T.  
 Gartland, George E.  
 Garver, John A.  
 Gaunt, James  
 Gawtry, H. E.  
 Gay, Joseph E.  
 Geer, Geo. J.  
 Geer, Robert C.  
 Geer, Walter  
 Gerard, Victor  
 Gerrish, Frank Scott  
  
 Gilbert, Clinton  
 Gillies, Edwin J.  
 Gillies, John S.  
 Gilmore, W. S.  
 Glatz, Charles  
 Glazier, Henry S.  
 Goadby, W. H.  
 Goddard, F. N.  
 Godfrey, Mrs. E. D.  
 Godkin, Lawrence  
 Goeble, Lewis S.  
 Goldschmidt, Geo. B.  
 Goldschmidt, S. A.  
 Goodchild, John  
 Goodfriend, Jacob  
 Goodfriend, Meyer  
 Goodhue, Chas. E.  
 Gottheil, Paul  
 Gould, Chas. W.  
 Gould, Edwin  
 Gould, Miss Helen M.  
 Grace, Mrs. L. A.  
 Graham, Robert Dun  
 Grant, Hugh J.  
 Grant, R. Suydam  
 Greeff, Bernhard, Jr.  
 Greeff, Ernest F.  
 Greene, James W.  
 Greenhut, Benedict J.  
 Greenwood, Isaac J.  
 Greer, Charles  
 Greer, Rt. Rev. David H.  
 Greer, Mrs. David H.  
 Gregory, Charles  
 Gregory, Chas. E.  
 Gregory, E. C.  
 Griffin, Mrs. W. P.  
 Griggs, George  
 Grinnell, George Bird  
 Griscom, C. A., Jr.  
 Griswold, Chester  
 Griswold, Mrs. Chester  
 Guggenheim, Simon  
 Guggenheim, William  
 Guinzburg, A. M.  
 Gundlach, C.  
 Gutmann, Carl

Hague, Arnold  
 Haines, Charles D.  
 Haines, Henry F.  
 Hale, Thomas  
 Hall, Mrs. John H.  
 Hall, W. H.  
 Halls, William, Jr.  
 Halsey, John R.  
 Halsey, Robert H.  
 Halsey, R. T. H.  
 Halsted, James M.  
 Halsted, Miss Mary M.  
 Hamburger, L.  
 Hamburger, Samuel B.  
 Hamersley,  
     Miss Catherine L.  
 Hamersley,  
     Louis Gordon  
 Hamilton, E. Horace  
 Hamilton, Miss E. S.  
 Hamlen, Dr. Geo. D.  
 Hammond, James B.  
 Hammond,  
     Mrs. Ogden H.  
 Hance, John A.  
 Handy, Parker D.  
 Hanna, L. C.  
 Harbeck, Chas. T.  
 Hard, Mrs. Anson W.  
 Hardenbergh, T. E.  
 Harding, H. M.  
 Hardley, J. Wheeler  
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 Harriman, Mrs. E. H.  
 Harriman, Mrs. H. M.  
 Harriot, Miss Caroline  
 Harris, Mrs. Robert  
 Harrison, George L., Jr.  
 Hartshorn, Stewart  
 Hasbrouck, Mrs. P. W.  
 Haskin, Dr. W. H.  
 Hasslacher, Jacob  
 Havemeyer, H. O., Jr.  
 Havemeyer, J. C.  
 Havemeyer, Mrs. J. C.  
 Havemeyer, John F.

Havemeyer, T. A.  
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 Haviland, Edwin  
 Havron, John  
 Hawk, Wm. S.  
 Hawkes,  
     Mrs. McDougall  
 Hawley, Edwin  
 Hayes, Mrs. R. Somers  
 Haynes,  
     Miss Caroline Coventry  
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 Hazen, George H.  
 Hecht, George J.  
 Hedges, Job E.  
 Heide, Henry  
 Heimann, Julius  
 Heinze, Arthur P.  
 Hellmann, Paul  
 Heminway, Homer  
 Hencken, Hancke  
 Hendricks, Mrs. Edgar  
 Hendricks, Francis  
 Hendricks, Harmon W.  
 Henning, Gustavus C.  
 Hepburn, A. B.  
 Herbert, William  
 Hermann, Ferdinand  
 Hershheim, Joseph  
 Heroy, Mrs. James H.  
 Herreshoff, J. B. Francis  
 Herrmann, Charles E.  
 Herter, Dr. Christian A.  
 Hess, Selmar  
 Hewlett, Walter Jones  
 Heydt, Herman A.  
 Hicks, F. C.  
 Higgins, Francis  
 Hilles, Wm. T.  
 Hills, Dr. Alfred K.  
 Hilyard, George D.  
 Hinchman, Walter  
 Hine, Francis L.  
 Hines, Walker D.  
 Hirsch, Albert  
 Hirsch, Chas. S.

Hoag, William N.  
 Hoagland, Mrs. Jos. C.  
 Hobby, J. Oakley  
 Hochschild, Berthold  
 Hodenpyl, Anton G.  
 Hodges, George W.  
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 Hoe, Geo. E.  
 Hoe, Richard M.  
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     Mrs. Richard March  
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 Hoe, William J.  
 Hoffman, Joseph E.  
 Holden, E. R.  
 Hollenback,  
     Miss Amelia B.  
 Holt, Henry  
 Holt, R. S.  
 Holter, Mrs. E. O.  
 Holzmaister, L. V.  
 Hopkins,  
     Miss Augusta D.  
 Hornblower, Wm. B.  
 Horr, L. Wm.  
 Hoskins, C. F.  
 Hotchkiss, Henry D.  
 House, Frederick B.  
 Houser, Aloise  
 Howard, Montague  
 Howell, M. D.  
 Hoyt, Francis S.  
 Hoyt, Gerald L.  
 Hoyt, Miss Gertrude L.  
 Hubbard, Gen. T. H.  
 Hubschmitt,  
     John J., M.D.  
 Hudson,  
     Mrs. Georgia C.  
 Hudson, Percy K.  
 Hughes, Charles E.  
 Humphreys, Frederic H.  
 Humphreys, Geo. H.  
 Hunter, David M.  
 Huntington, Mrs. R. P.  
 Hüpfel, Adolph G.

- Hüpfel, J. Chr. G.  
Hurlbut, Theo. D.  
Hussey, William H.  
Husted, Seymour L., Jr.  
Hutchinson, Cary T.  
Huyler, Frank DeK.  
Huyler, John S.  
Hyatt, A. M.  
Hyde, Mrs. Augustus L.  
Hyde, E. Francis
- Ingraham, Geo. L.  
Ireland, John B.  
Iselin, C. Oliver  
Iselin, Miss Georgine  
Iselin, Mrs. William E.  
Iselin, Wm. E.  
Isham, C. B.  
Isham, Samuel
- Jackson, Geo. T., M.D.  
Jackson, John B.  
Jackson,  
    Samuel Macauley  
Jacobus, John S.  
Jaffray, Robert  
James, Robert C.  
James, Mrs. Walter B.  
Janeway, E. G., M.D.  
Jansen, Ed.  
Jarvie, James N.  
Jarvis, Samuel M.  
Jenkins, A. B.  
Jenkins, George W.  
Jennings, Miss A. B.  
Jennings,  
    Mrs. Frederic B.  
Jennings, Philander R.  
Jennings, Robert E.  
Jennings, Walter  
Jewett, Geo. L.  
Johnson, James G.  
Johnston, J. Herbert  
Joline, Adrian H.  
Jonas, William  
Jones, A. H.  
Jones, Miss Beatrix  
Jones, Charles H.
- Jones, Dwight A.  
Jones, H. Bolton  
Josephi, E. A.  
Judson, Alfred M.  
Judson, Henry I.  
Jungmann, J.
- Kahle, Jos. L.  
Kahle, M.  
Kahn, Felix E.  
Kahn, Otto H.  
Kahn, Ulysses S., M.D.  
Kahnweiler, William S.  
Kauffeld, Theodore  
Kaufman, Edward S.  
Kautz-Eulenburg, Miss  
Kean,  
    Mrs. Hamilton Fish  
Keech,  
    Mrs. Frank Browne  
Keith, Minor C.  
Kelley, Augustus W.  
Kellogg, Mrs. Chas.  
Kelly, William H.  
Kemmerer, M. S.  
Kemp, Edward  
Kemp, Mrs. Edward  
Kemp, George Wm.  
Kemp, Prof. James F.  
Kennard, Frederic H.  
Kent, Edwin C.  
Kenyon, Wm. Houston  
Keppel, David  
Kerr, John B.  
Kidder, C. G.  
Kilner, S. E.  
Kimball, Alfred R.  
Kimbel, Anthony  
Kimbel, Henry  
King, Thos. M.  
Kingsford, Daniel P.  
Kingsland,  
    Mrs. Wm. M.  
Kingsley, W. M.  
Kinney, Morris  
Kinnicutt, Dr. F. P.  
Kip, Clarence V.
- Kip, W. Ruloff  
Kirkpatrick,  
    Mrs. Thomas  
Klatzl, John C.  
Klaw, Marc  
Klee, Simon J.  
Klenke, William H.  
Klipstein, E. C.  
Knapp, H., M.D.  
Knapp, Mrs. H. K.  
Knauth, Antonio  
Kohlman, Charles  
Kohn, Arnold  
Kohn, S. H.  
Kohn, Theo. A.  
Kohns, L.  
Kolb, Gustave F.  
Kraus-Boelté,  
    Mrs. Maria  
Krech, Mrs. Angeline J.  
Krower, Alfred  
Kudlich, H. C.  
Kugelman, J. G.  
Kuhn, Arthur K.  
Kuhn, Edward  
Kuser, Anthony R.  
Kuttruff, Adolf
- Lacey, H. D.  
Lacombe, E. Henry  
Lagai, Dr. G.  
Lagowitz, Miss H. L.  
Laidlaw, Mrs. Henry B.  
Laidlaw, Mrs. Jas. Lees  
Lamarche, Henry J.  
Lambert, Adrian V. S.  
Lambert, Samuel W.  
Lammel, Rev. Anthony  
La Montagne, Harry  
L'Amoreaux, J. S.  
Landon, Francis G.  
Landon, Henry Hutton  
Lane, Edward V. Z.  
Lane, James Warren  
Lane, Wm. Armistead  
Langdon,  
    Woodbury G., Jr.

Lange, J. D.  
 Langmann, G., M.D.  
 Lantz, Jesse  
 Lapham, Lewis H.  
 Lathrop, Alanson P.  
 Lauderdale, Dr. J. V.  
 Laughlin, James, Jr.  
 Lauterbach, Edward  
 Lavelle, Rev. Michael J.  
 La Vie, Geo. A.  
 Lawrence, Emlen N.  
 Lawrence, Miss M.  
 Lawrence,  
     Gen. Samuel C.  
 Lawrence, William W.  
 Leale, Charles A., M.D.  
 Leaycraft, J. Edgar  
 Ledyard,  
     Mrs. Lewis Cass  
 Lee, Charles N.  
 Lee, Mrs. Frederic S.  
 Lee, J. Bowers  
 Lefferts, Marshall C.  
 Lefferts, William H.  
 Legg, George  
 Lehmaier, James M.  
 Lehmaier, Mrs. Louis A.  
 Lehman, Meyer H.  
 Leigh, B. W.  
 Leighton, George B.  
 Leland, Amory  
 Lemp, Louis  
 Leonori, Charles L.  
 Leshner, A. L.  
 Leupp, Wm. H.  
 Leverich, S. Duncan  
 Levi, Albert A.  
 Levi, Emil S.  
 Levison, Benno, Jr.  
 Levy, Emanuel  
 Levy, Mitchell A. C.  
 Lewis, August  
 Lewis, Frederic Elliott  
 Lewis, Richard V.  
 Lewis, Wm. J., M.D.  
 Lewisohn, Albert  
 Lewisohn, Miss Irene

Libbey, Frederick A.  
 Lichtenstein, Melvin  
 Lichtenstein, Paul  
 Lieb, J. W., Jr.  
 Lincoln, Lowell  
 Lisman, Frederick J.  
 Livingston, E. de P.  
 Livingston,  
     Gilbert Robert, Jr.  
 Livingston, Wm. S.  
 Lloyd, Francis G.  
 Lobenstine, W. C.  
 Locke, Charles E.  
 Lockman, John T.  
 Lockwood,  
     Dr. George Roe  
 Loeb, James  
 Loewi, Valentine  
 Loewy, Benno  
 Logan, Frank J.  
 Lord,  
     Mrs. Geo. de Forest  
 Loring, D. A.  
 Lorsch, Henry  
 Louis, Chas. H.  
 Lounsbery, R. P.  
 Lovejoy, A. B.  
 Low, Ethelbert I.  
 Lowell,  
     Miss Carlotta Russell  
 Löwengard, Otto  
 Ludington, C. H.  
 Ludlow, James B.  
 Lueder, A.  
 Lummis,  
     Benjamin Rush  
 Lummis, Wm.  
 Lusk, Miss Anna H.  
 Lüttgen, Walther  
 Lyall, Arthur V.  
 Lydig, Philip M.  
 Lyman, Henry D.  
 Lyman, Theodore  
 Lyon, Ralph  
 Maas, Gustavus  
 Mabon, J. B.

Macdonald, Charles  
 MacDougall, Geo. R.  
 Mack, Arthur J.  
 Mackey, Oscar T.  
 MacVeagh, Charles  
 Macy, F. H., Jr.  
 Macy, George H.  
 Macy, Wm. H., Jr.  
 Mager, F. Robert  
 Mahl, Wm.  
 Mallory, Charles  
 Manierre, Charles E.  
 Mann, W. D.  
 Mansbach, E.  
 Mansfield, Howard  
 Marbury, Miss E.  
 Markle, John  
 Markoe, Dr. J. W.  
 Marling, Alfred E.  
 Marlbor, Henry S.  
 Maron, Otto  
 Marsh, C. P.  
 Marsh, J. A.  
 Marshall, Charles H.  
 Marston, Edgar L.  
 Marston, Edwin S.  
 Martin, E. Howard  
 Martin, W. M.  
 Martinez, M. R.  
 Marvin, Charles D.  
 Marwick, James  
 Mason, Miss Fanny P.  
 Massey, George  
 Mastin, J. Edward  
 Matheson, Wm. J.  
 Mathews, Frank S.  
 Mathews, Thos.  
 Maxwell, John R., Jr.  
 Mayer, Dr. Alfred G.  
 Mayer, Marcus  
 Maynard, George W.  
 McAleenan, Henry A.  
 McAlpin, Dr. D. H., Jr.  
 McAlpin, George L.  
 McBean, Duncan D.  
 McBurney,  
     Charles, M.D.

- McBurney, Mrs. Charles  
 McCagg, Louis B.  
 McCarthy, J. M.  
 McCready,  
     Mrs. Caroline A.  
 McDonald, Wm.  
 McIntyre, Ewen  
 McIntyre, John G.  
 McKelvey, Charles W.  
 McKelvey, J. J.  
 McKenney, Henry P.  
 McKeon, John C.  
 McKim, John A.  
 McKim, Le Roy  
 McLane,  
     James W., M.D.  
 McLean, George H.  
 McMahan,  
     Rev. Joseph H.  
 Mead, Marvin H.  
 Meeker, Henry E.  
 Mehl, Henry  
 Meigs, Titus B.  
 Melcher, John S.  
 Mellen, C. S.  
 Meloy, Andrew D.  
 Melville, Henry H.  
 Messenger, H. J.  
 Metcalfe,  
     Capt. Henry, U.S.A.  
 Meyer, Amandus  
 Meyer, B. G.  
 Meyer, Edwin O.  
 Meyer, Geo. A.  
 Meyer, Harry J.  
 Meyer, Robert B.  
 Meyn, Heinrich  
 Milbank, Joseph  
 Milburn, John G.  
 Milhau, Louis J. de  
 Milholland, John E.  
 Miller, D. S.  
 Miller, Geo. Macculloch  
 Miller, Roswell  
 Mills, John T., Jr.,  
 Mitchell, Alfred  
 Mitchell, A. M.  
 Mitchell, Cornelius B.  
 Mitchell, John J.  
 Mitchill, Miss M. E.  
 Moffat, George Bayrcla  
 Moffitt, Samuel  
 Montant, Alphonse  
 Montross, N. E.  
 Moore, Casimir de R.  
 Moore, Miss Faith  
 Moore, Mrs. W. D.  
 Moore, W. H. Helme  
 Morewood, George B.  
 Morgan, Miss Annie T.  
 Morgan, Miss Caroline L.  
 Morgan, George H.  
 Morgan, Wm. Fellowes  
 Morgenthau, G. L.  
 Morgenthau, Henry  
 Morgenthau, Mrs. M. L.  
 Morningstar, J.  
 Morris, Henry Lewis  
 Morris, John  
 Morris, Theo. Wilson  
 Morrison, Edward A.  
 Morrison, George A.  
 Morton, Mrs. Levi P.  
 Morton, Mrs. Paul  
 Morton, Quincy L.  
 Mott, Henry C.  
 Mott, Miss Marian  
 Müller, Carl  
 Muller, Mrs. Clemens  
 Müller, Robert, Jr.  
 Mulry, Thomas M.  
 Munsey, Frank A.  
 Munson, C. W.  
 Murphy, Franklin  
 Murray, F. W., M.D.  
 Murray, J. Irvin, Jr.  
 Murtha, Thomas F.  
 Muschenheim, Wm. C  
 Myers, Chas. A.  
 Myers, L.  
 Myers, Theo. W.  
 Nash, E. S.  
 Nash, Wm. A.  
 Nathan, Frederick  
 Nathan, Harmon H.  
 Nathan, Joseph  
 Neilson, John  
 Nelson, Mrs. S. B.  
 Neuburger, David  
 Neustadt, Mrs. S.  
 Newberry, Truman H.  
 Newbury, Andrew J.  
 Newton, James S.  
 Nichols, John W. T.  
 Nichols, William E.  
 Nicoll, De Lancey  
 Ninick, Mrs. A. K.  
 Norris, Henry D.  
 Norris, Henry S.  
 Norton, Ex.  
 Norton, Geo. F.  
 Notman, George  
 Noyes, Mrs. Henry D.  
 Nugent, Frank L.  
 Nunn, Richard J., M.D.  
 Oakes, Francis J.  
 Obermeyer, Jos.  
 Oberndorf, David  
 O'Brien, J. M.  
 Obrig, Adolph  
 Ochs, Adolph S.  
 Oettinger, P. J.  
 Ogden, Robert C.  
 Olcott, Dudley  
 Olcott, E. E.  
 Olcott, Geo. M.  
 Olesheimer, Jacob  
 Olin, S. H.  
 Ollive, Thos. S.  
 Olyphant, R. M.  
 Olyphant, Robert  
 Opdycke, Mrs. Emerson  
 Opdycke,  
     Mrs. Leonard E.  
 Oppenheimer, Dr. H. S.  
 O'Rourke, John F.  
 Orr, William C.  
 Orvis, Edwin W.  
 Osborn, A. Perry

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Mrs. H. Fairfield  
Osborn, H. Fairfield, Jr.  
Osborn,  
Miss Josephine A.  
Osterholt, Ehler  
Ottinger, Marx  
Oudin, Lucien  
Owens, Wm. W.

Paddock, Charles H.  
Paddock, Eugene H.  
Page, Wm. H.  
Pagenstecher, A.  
Painter, Dr. H. McM.  
Palmer, John Stanton  
Palmer, N. F.  
Palmer, S. S.  
Parker, Forrest H.  
Parker,  
Mrs. Henrietta M.

Parker, Robert A.  
Parker, William Lincoln  
Parker, Mrs. Winthrop  
Parrish, James C.  
Parsons, Charles E.  
Parsons, Chas. W.  
Parsons, Edwin  
Parsons, Mrs. Edwin  
Parsons, Herbert  
Parsons, Schuyler L.  
Pateron, R. W.  
Paton, Wm. Agnew  
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131

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1869

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Forty-second Annual Report  
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For the Year 1910



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**Annual Report of the President**  
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# CONTENTS

---

	PAGE
MEMBERSHIP AND ENDOWMENT.....	5
FORM OF GIFT OR BEQUEST.....	5
BOARD OF TRUSTEES .....	10
COMMITTEES AND OFFICERS .....	11
SCIENTIFIC STAFF.....	12
PRESIDENT'S REPORT.....	15
Exhibition, Installation, Alteration.....	16
Plans for New Building.....	18
General Apportionment of Museum and City Funds.....	21
Educational Extension.....	22
Explorations, Collections and Exhibitions.....	23
Hospitality to Scientific Societies.....	24
Administration and Changes in Staff.....	25
Progress of the Departments.....	26
Public Education.....	26
Museum Extension to the Schools and Libraries....	27
Lectures to School Children.....	28
General Lectures.....	28
Photography.....	28
Children's Room.....	29
Room for the Blind .....	29
Minerals—Department of Mineralogy.....	29
Mammals and Birds—Department of Mammalogy and Ornithology .....	30
Extinct Vertebrates—Department of Vertebrate Palæontology.....	33
Living Reptiles, Batrachians, Living and Extinct Fishes—Department of Ichthyology and Herpetology.....	36
Living Fishes.....	37
Fossil Fishes.....	38
Living Reptiles and Batrachians.....	39
Living Invertebrates—Darwin Hall—Department of Invertebrate Zoology.....	41
Invertebrates in General.....	42
Molluscs .....	43
Hall of Local Insects and Insect Biology.....	43
Geology and Extinct Invertebrates—Department of Geology and Invertebrate Palæontology.....	45
Changes in Staff ..	47

## *Contents*

PRESIDENT'S REPORT—Continued	PAGE
Living and Extinct Races of Men—Department of	
Anthropology.....	48
Physiology—Department of Physiology.....	51
Public Health—Department of Public Health.....	51
Woods and Forestry.....	53
The Library—Department of Books and Publications.....	54
Publications.....	56
Membership.....	59
Classes of Membership....	5
New Members.....	60
Deceased Members and Curators.....	61
Finances, Maintenance, Endowment.....	62
City Maintenance Account.....	62
Trustees General Account.....	63
Morris K. Jesup Fund.....	63
Trustees Special Funds Account.....	64
Trustees Permanent Endowment Account.....	64
FINANCIAL STATEMENT.....	65
ACCESSIONS.....	76
Public Education.....	76
Geology and Invertebrate Palæontology.....	77
Mammalogy and Ornithology.....	78
Vertebrate Palæontology.....	82
Ichthyology and Herpetology.....	83
Anthropology.....	87
Mineralogy.....	91
Invertebrate Zoölogy....	94
Lepidoptera.....	98
Mollusca.....	98
ACT OF INCORPORATION.....	100
CONTRACT WITH THE DEPARTMENT OF PUBLIC PARKS.....	102
CONSTITUTION.....	108
BY-LAWS.....	114
LEGISLATION.....	116
LIST OF MEMBERS.....	120
Patrons.....	120
Fellows.....	122
Honorary Fellows.....	123
Life Members.....	123
Sustaining Members.....	130
Annual Members.....	131

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ROY W. MINER, A.B., Assistant Curator

FRANK E. LUTZ, A.B., A.M., Ph.D., Assistant Curator

L. P. GRATACAP, Ph.B., A.B., A.M., Curator of Mollusca

WILLIAM BEUTENMÜLLER, Associate Curator of Lepidoptera

JOHN A. GROSSBECK, Assistant

Prof. WILLIAM MORTON WHEELER, Ph.D., Honorary Curator of Social Insects

ALEXANDER PETRUNKEVITCH, Ph.D., Honorary Curator of Arachnida

Prof. AARON L. TREADWELL, B.S., M.S., Ph.D., Honorary Curator of Annulata

CHARLES W. LENG, Ph.D., Honorary Curator of Coleoptera

## *DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY*

Prof. BASHFORD DEAN, A.B., A.M., Ph.D., Curator of Fishes and Reptiles

LOUIS HUSSAKOF, B.S., Ph.D., Associate Curator of Fossil Fishes

JOHN TREADWELL NICHOLS, A.B., Assistant Curator of Recent Fishes

MARY CYNTHIA DICKERSON, B.S., Assistant Curator of Herpetology

## *DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY*

Prof. J. A. ALLEN, Ph.D., Curator

FRANK M. CHAPMAN, Curator of Ornithology

ROY C. ANDREWS, A.B., Assistant Curator of Mammalogy

W. de W. MILLER, Assistant Curator of Ornithology

## SCIENTIFIC STAFF FOR 1911—*Continued*

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### *DEPARTMENT OF VERTEBRATE PALÆONTOLOGY*

Prof. HENRY FAIRFIELD OSBORN, A.B., Sc.D., LL.D., D.Sc., Curator Emeritus  
W. D. MATTHEW, Ph.B., A.B., A.M., Ph.D., Curator  
WALTER GRANGER, Associate Curator of Fossil Mammals  
BARNUM BROWN, A.B., Associate Curator of Fossil Reptiles  
WILLIAM K. GREGORY, A.B., A.M., Ph.D., Assistant

### *DEPARTMENT OF ANTHROPOLOGY*

CLARK WISSLER, A.B., A.M., Ph.D., Curator  
PLINY E. GODDARD, A.B., A.M., Ph.D., Associate Curator  
HARLAN I. SMITH, Associate Curator  
ROBERT H. LOWIE, A.B., Ph.D., Assistant Curator  
HERBERT J. SPINDEN, A.B., A.M., Ph.D., Assistant Curator  
CHARLES W. MEAD, Assistant  
ALANSON SKINNER, Assistant

### *DEPARTMENT OF PHYSIOLOGY*

Prof. RALPH W. TOWER, A.B., A.M., Ph.D., Curator

### *DEPARTMENT OF PUBLIC HEALTH*

Prof. CHARLES-EDWARD AMORY WINSLOW, S.B., M.S., Curator  
JOHN HENRY O'NEILL, S.B., Assistant

### *DEPARTMENT OF WOODS AND FORESTRY*

MARY CYNTHIA DICKERSON, B.S., Curator

### *DEPARTMENT OF BOOKS AND PUBLICATIONS*

Prof. RALPH W. TOWER, A.B., A.M., Ph.D., Curator

### *DEPARTMENT OF PUBLIC EDUCATION*

Prof. ALBERT S. BICKMORE, B.S., Ph.D., LL.D., Curator Emeritus  
GEORGE H. SHERWOOD, A.B., A.M., Curator







PORTION OF FINISHED FUR SEAL GROUP. Gift of the late Mr. D. O. Mills. The seals were collected expressly for the Museum in 1908 at the Pribilof Islands and were mounted by Mr. Frederick Blaschke, animal sculptor

## FORTY-SECOND ANNUAL REPORT

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*To the Trustees and Members of The American Museum of Natural History, and to the Municipal Authorities of the City of New York:*

The President submits herewith his report of the progress of the Museum for the year 1910. A new feature of the preparation of this report is that its departmental sections\* have been written under the President's direction by the Curators and Officers in charge.

Our gratitude should first be expressed to the old friends and supporters of the American Museum, whose generous gifts of the past year are acknowledged in detail in the pages of this report.

While our income from endowment has not materially increased, the total gifts towards exploration and exhibition exceed those of any previous year in the Museum's history.

We have gained also new friends at home and abroad who have been impressed with the spirit and purpose of the Museum. Among the latter may be mentioned especially three from Great Britain, Sir Ernest Shackleton, Mr. F. C. Selous and Mr. Walter Winans. The contribution of the Belgian Government to the Congo Expedition may also be recalled.

The addition of three new departments since 1907, namely, of Living Fishes and Reptiles, of Woods and Forestry and of Public Health, has made serious demands upon our income, when taken in connection with the strengthened personnel of several of the older departments and the general advances in salaries and wages to meet the increased cost of living which affects our entire force of 224 persons. Thus the increased endowment afforded by Mr. Jesup's bequest, which cannot by its terms be used for any item of Maintenance, is offset by these increases. Expansion along this line, how-

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\* Beginning on page 26.

ever, has now reached its proper limit for some years to come, and the application of an enlarged endowment, which is urgently needed, will be mainly in the direction of placing on exhibition the superb material from many lands with which our storage rooms are still crowded.

The plan for the general rearrangement of our great and rapidly increasing collections and exhibition halls, including the movement in the direction of a final ideal plan which shall be popular, educational and scientific, has made marked progress, but has not yet reached a stage where it can be published.

The maintenance of the Museum by the City has been increased for 1911 to \$189,757, but if this were enlarged to the legal limit of \$200,000, enjoyed by our sister Museum of Art, it would still fall far below the actual expenditures for maintenance, which amounted in the year 1910 to \$229,259.38.

During the present year the whole exhibition space, including the new West Wing, has been completely occupied and application has been made to the Park Department for the erection of a new wing.

We take this opportunity of acknowledging the spirit of cordial coöperation which has animated Park Commissioner Stover and the members of the Board of Estimate and Apportionment.

### EXHIBITION, INSTALLATION, ALTERATION

The chief work of the past year has been the equipment and preparation for exhibition of the new West Wing of the Museum on Columbus Avenue and the rearrangement and transfer of the exhibitions and collections in the Department of Anthropology connected therewith. Thus a number of notable collections, some of which have been in the Museum for many years, have been installed for the public in the following new exhibition halls:

PHILIPPINE ISLANDS, FOURTH FLOOR, NEW WING

SOUTH SEA ISLANDS, FOURTH FLOOR, NEW WING

INDIANS OF THE SOUTHWEST, FIRST FLOOR, NEW WING

AFRICAN ETHNOLOGY, SECOND FLOOR, NEW WING



MAIN ROOM OF THE "MITLA" RESTAURANT





Removals and rearrangements, in connection with these important changes, have led to the following transfers:

MINERALOGICAL HALL, FOURTH FLOOR, WEST WING

MEXICAN HALL, SECOND FLOOR, WEST WING

The Hall of Molluscs, which has been removed from the fifth floor, to make room for the new Administrative Offices, is still in preparation and will not be open to the public for some time. This involves a rearrangement of the shell collections of the Museum, among the earliest of its acquisitions, which, when completed, will appear under the new aspect of the modern spirit of museum exhibition.

The Buildings and Plans Committee, in connection with the expenditure of the \$100,000 equipment fund, appropriated by the Board of Estimate and Apportionment on July 2, 1909, has instituted a thoroughly systematic method of preparing, approving and filing of all plans and of controlling expenditures. A special room for the Buildings and Plans Committee and for the filing of plans will be fitted up.

The construction of the service roadway from Columbus Avenue under the Southwest Wing was completed in May. The facilities for handling freight and the weighing and storage of coal have been greatly improved thereby.

A restaurant, modeled to conform to the interior of one of the Mexican temples at Mitla, has been opened in the basement. The historic design and equipment of the room in itself, as arranged by Director Bumpus and Professor Saville, have attracted much interest.

For a long time it has been felt that a Members' Room should be provided, which patrons of the Museum and their friends might enjoy while visiting the institution. Such a room is now being equipped on the third floor, from Trustees' funds, with writing tables, telephone booth, etc.

As a greater protection from fire, a new Electric Fire Alarm System has been installed in the basement. The signals

are so arranged that if an alarm is sounded, any employe in the basement can tell instantly in which section of the building the fire is located.

A feature in the furnishing of the new exhibition halls has been the introduction of a new type of gun-metal case with marble base, designed by Director Bumpus in consultation with Secretary Kent of the Metropolitan Museum. These cases are put together in such a way as to facilitate the removal of either side without disturbing the remaining sections or the material within. The construction is simple, artistic, relatively inexpensive, but capable of mechanical improvement in certain details.

The series of changes in the exhibition halls has facilitated the transfer of the Administrative Offices of the Museum to the center of the building, top floor, which is now in progress.

#### PLANS FOR NEW BUILDING

These changes emphasize the desirability of the adoption and approval by the Trustees of a permanent plan of development of the building, as a whole, also of a final educational and scientific arrangement of all the collections. This matter has been given a great deal of study by the President, in consultation with the heads of various departments, and especially of Anthropology, which department occupies the entire western half of the building.

A preliminary report by the President, entitled "History, Plan and Scope of the American Museum of Natural History," was presented at the Forty-first Annual Meeting of the Trustees, February 14, 1910, in an edition of fifty copies from the Irving Press. A Curators' Edition of the same report will be issued early in 1911, so that the members of the scientific staff may have an opportunity of examining the proposed future plans of the exhibition halls of the Museum and of making any suggestions regarding these plans which may be found desirable, before they are finally adopted by the Board.

In the meantime, Messrs. Trowbridge and Livingston, architects, were invited to prepare preliminary plans for the new Western Entrance Hall of the Museum, facing Seventy-ninth Street. These plans have been very carefully studied by the Buildings and Plans Committee, with reference to making this entrance a monumental gateway to the anthropological half of the Museum and of placing therein, on the first and second floors, the Duc de Loubat collection and other reproduced and original archæological remains from Mexico and Central America, which will represent the high-water mark of native American culture and lend themselves to an imposing architectural treatment. This Hall is being designed in keeping with its contents, and an expert archæologist has been especially despatched by the Museum to the ruins of Mexico and Yucatan to study and prepare detailed plans for structural and mural designs. Director Bumpus and Dr. Spinden also visited Mexico in February for this purpose. At the May Meeting of the Board, the general plans for this great western entrance were approved and referred back to the Committee for the further study of detailed design.

The Committee has also begun the consideration of plans for the construction of an East Wing (South Section of the East Façade) on Eighth Avenue or Central Park West, and of a Court Building in the southeast area.

Responding to a request from the Department of Parks for an estimate of the probable sum which the Museum will require for the purpose of building during the next five years, preliminary application has been made to the City for \$2,750,000, or \$550,000 per annum for the years 1911-1915, inclusive. This is the amount estimated to be necessary to construct and equip the three new sections and a court building, together with enlargement of the power plant, now under consideration by the Trustees, namely:

WEST ENTRANCE HALL  
WEST TRANSEPT  
SOUTHEAST WING  
COURT BUILDING

The growth of the collections has been so much more rapid than the growth of the building that the Museum still finds itself with its great storerooms on the upper floor overcrowded and with most interesting collections still undisplayed. There are, moreover, certain subjects, which will be of very great value in the educational system of the City, that must be provided for in new buildings, especially astronomy, geography, oceanography and ichthyology. In this connection, for convenience of reference, it is important to summarize the appropriations for building from 1871 to 1909, inclusive:

TOTAL OF APPROPRIATIONS FOR CONSTRUCTION PURPOSES OF THE  
AMERICAN MUSEUM OF NATURAL HISTORY, 1871-1909

Chapter 290, Laws of 1871.....	\$500,000
Chapter 315, Laws of 1875.....	200,000
Chapter 44, Laws of 1887.....	400,000
Chapter 89, Laws of 1889.....	400,000
Chapter 423, Laws of 1892.....	350,000
Chapter 448, Laws of 1893.....	50,000
Chapter 63, Laws of 1894.....	200,000
Chapter 235, Laws of 1895.....	500,000
Chapter 175, Laws of 1896.....	500,000
Chapter 213, Laws of 1897.....	500,000
Chapter 183, Laws of 1900.....	350,000
Ordinance Board of Aldermen, July 22, 1902.....	200,000
Ordinance Board of Aldermen, June 16, 1903.....	188,000
Ordinance Board of Aldermen, April 11, 1905.....	500,000
Ordinance Board of Estimate and Apportionment, 1909..	100,000
	<hr/>
	\$4,938,000

The entire sum, namely, \$4,938,000, which has been expended thus far for building, is small compared with that appropriated for other great public buildings in the City, or with the important part which the Museum plays in the educational system of New York, or, again, with the large amount, now aggregating \$4,473,507.32, which the citizens of New York have contributed to the endowment, to the collections and to the library of this great institution.

## GENERAL APPORTIONMENT OF MUSEUM AND CITY FUNDS

To clearly show the general policy and scope of the Museum, it is interesting to present the allotment, after very careful analysis, of the total expenditures of the moneys contributed by the City and by the Museum in the year 1909, as follows:

### ANALYSIS OF EXPENDITURES IN 1909

	By the Trustees and Friends of the Museum	By the City	Total
<i>Administration (Maintenance)</i>			
All salaries and supplies for the purpose of scientific and office administration, heating and lighting, current repairs, care of exhibition halls and collections, sundry and general expenses.			
Salaries.....	\$3,403 36	\$122,296 94	\$125,700 30
Supplies, etc.....	16,565 32	26,835 31	43,400 63
<i>Scientific care of Exhibition Halls, Collections (Maintenance)</i>			
All salaries and supplies for the purpose of preparing, preserving and exhibiting specimens and collections	21,750 06	17,834 51	39,584 57
<i>Publication and Research</i>			
For apportionment of services of the scientific staff for publication and research, services of artists and photographers, the preparation and printing of the Bulletin, Memoirs, American Museum Journal, and of the Jesup North Pacific Expedition Publications.			
Publication.....	25,695 32	.....	25,695 32
Research.....	11,021 19	.....	11,021 19
<i>Library</i>			
For the payment of all salaries for care and binding, and for the purchase of books, periodicals, etc....	7,482 56	(salaries only) 9,434 21	16,916 77
<i>Exploration and Purchase of Collections</i>			
For the payment of all field salaries and expenses while in the field, purchases of all specimens and collections, payment of express, freight and custom house charges for the same.....	96,291 68	.....	96,291 68
<i>Public Education</i>			
For the payment of services and supplies for photographic work, lectures, transferring school collections (excepting maintenance of automobile, but including chauffeur's services) and Children's Room.....	5,004 14	3,873 95	8,878 09
	\$187,213 63	\$180,274 92	\$367,488 55

The Trustees and friends of the Museum will be especially impressed with the large amount that has been expended, particularly for publication and research, for exploration and purchase of collections, as well as the generous contribution of the Museum to the cause of public education, which is not part of our original contract relations with the City. This general apportionment of funds is not a new feature of the Museum policy, but dates back to the early years of President Jesup's administration. It is this broad scientific policy which has given the Museum its world-wide reputation and which has made a position on its scientific staff as desirable as that of an appointment in one of our larger universities.

The analysis shows also that the general gifts or contributions from all sources to the Museum in 1909 exceed by over \$7,000 the City's contribution to maintenance. The payroll, owing to the appointment of new scientific officers, the rounding out of the scientific departments of the Museum so as to cover the whole field of natural history, the salaries of these officers, the increases of salaries to members of the scientific staff as well as to the administrative officers of the institution and to the employes or labor force, during the past three years, has reached a very large total.

### EDUCATIONAL EXTENSION

The year's progress in the Department of Education is fully reported upon under the heading "Public Education" on page 26. This feature of the Museum's activity is one which brings it more closely in touch than any other with the welfare of our great City, as a whole, and with our entire public educational system. While in our opinion, the City would not be justified in building an institution for pure research or for exploration, it is more than justified, in fact, it is the very wisest use of public funds, to support and extend the system of an institution which is doing so much for the cause of public enlightenment. Here, again, statistical inquiry has been made which illustrates the march of progress during the past seven years, 1904-1910:

STATISTICS OF NUMBERS REACHED BY MUSEUM  
EXTENSION SYSTEM

	1904	1905	1906	1907	1908	1909	1910
Board of Education Lectures...	44,000	42,212	45,000	35,068	43,386	28,402	43,549
Children's Lectures .....	35,000	35,000	17,187	26,312	22,931	20,165	9,242
Children's Room and Mrs. Roesler's Special Lectures.....				3,376	5,430	7,359	6,368
Classes visiting the Museum for General Study..	7,380	11,000	6,813	7,795	10,818	8,712	9,284
Meetings of Scientific Societies and other Meetings and Lectures .....	21,931	35,281	6,867	11,784	15,587	337,433	58,926
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General Attendance for all purposes.. ....	402,449	565,489	476,133	537,894	1,043,582	839,141	613,152
Number of Pupils reached by Circulating Collections.....	250,000	375,000	800,000	725,000	575,801	922,512	839,089
	652,449	940,489	1,276,133	1,262,894	1,619,383	1,761,653	1,452,241

The rise of attendance during the years 1908-1909 was due chiefly to the extraordinary interest aroused by the Tuberculosis Exhibition, which brought thousands of new visitors from the East Side of the City especially. It was this interest which led to the establishment of the new Department of Public Health, which, when in full operation, will render permanent public service in a new field.

EXPLORATIONS, COLLECTIONS AND EXHIBITIONS

The income from the Jesup bequest, as well as the generous gifts of special funds, during the past year, has enabled the Museum to carry on more active and successful expeditions in the field than in any previous year of its existence. The wide geographical extent of our exploratory work may be judged from the following summary:



*Report of the President**In the United States*

ALASKA	MAINE
ARIZONA	MASSACHUSETTS
CALIFORNIA	MISSISSIPPI
DAKOTA	MONTANA
FLORIDA	NEW MEXICO
NEW YORK	

*In Foreign Countries*

ALBERTA, CANADA	KOREA
ARCTIC AMERICA	MEXICO
BELGIAN CONGO	NICARAGUA
BRITISH EAST AFRICA	PHILIPPINE ISLANDS
CELEBES	SAMOA
COLOMBIA	VENEZUELA
JAPAN	WEST INDIES

The most notable expeditions, perhaps, are those for the benefit of the department of zoölogy, especially the expedition to the Belgian Colony of the Congo and that to British East Africa, as described in Curator Allen's report. It is especially gratifying to note that the Congo Expedition has been partly supported by a contribution from the Belgian Government. Important work has also been done in the collecting of whales off the coast of Japan. The anthropological work in the southwestern as well as in the northwestern United States is yielding fine results. The expeditions for fossil vertebrates have maintained the high standard of previous years. It is greatly desired that special funds should be secured for the continuance of exploration for fossil horses.

**HOSPITALITY TO SCIENTIFIC SOCIETIES**

The Museum continues to enjoy great popularity as a center for lectures and for conferences of scientific societies and organizations from all parts of the United States. Some of the sessions of the Fortieth Anniversary of the American Fisheries Society were held at the Museum in September, and a luncheon was given to its members.

During the year, the following societies have been entertained:

- American Bison Society
- American Ethnological Society
- American Fisheries Society

American Nature Study Society  
American Psychological Association, New York Branch  
American Rose Society  
American Scenic and Historic Preservation Society  
Audubon Society of the State of New York  
City History Club of New York  
Employees' Nursery Association  
Fairview Garden School Association  
Geological Society of America  
Horticultural Society of New York  
Linnæan Society of New York  
Mount Holyoke Alumnae Association  
National Association of Audubon Societies for the Protection of Wild  
Birds and Animals  
National Plant, Flower and Fruit Guild  
Natural Science Committee of the Associate Alumnae of the Normal  
College, New York City  
New York Academy of Sciences  
New York Entomological Society  
New York Library Club  
New York Microscopical Society  
New York Mineralogical Club  
Playground Association of America  
School Garden Association of New York  
Society of Former Employees of the United States Nurseries  
Torrey Botanical Club  
West Side Natural History Society

#### ADMINISTRATION AND CHANGES IN STAFF

The internal administration of the Museum remained under the guidance of Director Hermon C. Bumpus until the middle of June, when he entered upon a six months' leave of absence.

Through the courtesy of the New York Zoölogical Society, Dr. Charles H. Townsend, Director of the New York Aquarium, entered the service of the Museum temporarily as Acting Director, an office which he has filled with marked ability and success.

Professor R. P. Whitfield, who served as Curator of the Department of Geology and Invertebrate Palæontology for more than thirty-two years, and who was made *Curator Emeritus* in 1909, died during the month of April, 1910. He will always be remembered as one who rendered the Museum distinguished and faithful scientific service.

Owing to the heavy tax on Professor Osborn's time, which his administrative duties as President have entailed, he has retired as Curator of the Department of Vertebrate Palæontology, after nineteen years of service, and has been appointed *Curator Emeritus*. Dr. W. D. Matthew, Associate Curator, has been promoted to the active Curatorship.

In May, Dr. Bashford Dean offered his resignation as Curator of the Department of Ichthyology and Herpetology. Dr. Louis Hussakof was promoted to the Associate Curatorship of Fossil Fishes and Mr. John Treadwell Nichols to the Assistant Curatorship of Recent Fishes.

The Department of Public Health was organized last September, with Professor Charles-Edward Amory Winslow, formerly of the Massachusetts Institute of Technology, as its head.

In June, Mr. J. D. Figgins resigned from the preparation staff to accept the Directorship of the Colorado Museum of Natural History at Denver. Later, Mr. Albert E. Butler resigned to accept a position in the preparation department of the same Museum.

In connection with the leave of absence of Director Bumpus and of the resignation of Curator Dean, the Trustees at the May meeting appointed a Committee to consider the present system of internal administration of the Museum, as provided for in the Rules and Regulations of 1902, and to suggest to the Board such changes as might be deemed necessary.

## I. PROGRESS OF THE DEPARTMENTS

### PUBLIC EDUCATION

GEORGE H. SHERWOOD, Curator

DEPARTMENT OF PUBLIC EDUCATION.—According to the Articles of Incorporation of the Museum in 1869, one function is to furnish popular instruction, and on the basis of this charter the Museum entered into contractual relations with the City. Not only have the Trustees met in full the letter and spirit of this contract with the City, but in many ways,

especially through educational work, they have rendered returns to the City far in excess of their contract obligations.

Without additional compensation from the City, the distribution of circulating collections to the public schools was undertaken, special lectures for school children were instituted and special arrangements were made for the reception of classes and for their guidance through the Museum.

This extension work now involves a supplementary annual expenditure from Trustees' funds of approximately \$5,000.

For the purpose of making the teachers better acquainted with the ways in which the Museum is prepared to assist them in their work, a *Teachers' Day* was held at the Museum early in November. Representatives from all of the schools in the City were invited to be present and brief illustrated lectures were given by members of the scientific staff. Addresses were also made by President Henry Fairfield Osborn and Dr. William H. Maxwell, Superintendent of Schools, which were followed by a general reception. One of the results of *Teachers' Day* has been the creation of a greater interest on the part of the teachers in *Museum Extension Work*, and applications for the use of the collections have materially increased.

**MUSEUM EXTENSION TO THE SCHOOLS AND LIBRARIES.**—This is the seventh year that the Museum has supplied the schools of the City with the circulating collections of nature study specimens, and this work continues to receive the emphatic approval of the officials and teachers of the Board of Education. The material contained in these collections has been selected with a view to placing in the hands of the teachers the specimens which they require for class-room work. At the present time these collections include characteristic forms of birds, insects, lower invertebrates, minerals and native woods.

The collections are delivered to the schools by Museum messengers and are called for at the end of the loan period. During the year 334 schools have been supplied and 839,089 children have studied the collections.

Several special collections have been furnished to various branch libraries of the City. The material available for this purpose includes Philippine, Chinese, Indian, Eskimo, African,

Hiawatha, Fiber and Cord, Bird and Native Woods exhibits, and plans for the further development of this feature of the Museum's work are under way.

#### STATISTICS RELATING TO THE CIRCULATING COLLECTIONS

	1904	1905	1906	1907	1908	1909	1910
Number of Collections in use.....	120	400	435	450	484	435	390
Number of Schools of Greater New York supplied...	115	200	300	325	383	419	334
Number of Pupils studying the Collections .....	250,000	375,000	800,000	725,000	575,801	922,512	839,089

**LECTURES TO SCHOOL CHILDREN.**—Owing to the many demands that were made upon the time of the assistants in this department, the regular informal course of lectures to school children was omitted in the spring. The fall course, however, took place as usual, with an attendance of 9,242. These lectures are given by various members of the Museum staff, with a view to supplementing the class-room work in geography and history.

In addition to the regular course of lectures to school children, on request, special lectures were arranged for pupils from the High Schools and the Training School for Teachers.

**GENERAL LECTURES.**—The general lectures have included two courses to Members of the Museum, the usual series given under the auspices of the Board of Education, free lectures on public holidays, and special lectures in conjunction with the New York Academy of Sciences and Affiliated Societies. The attendance at these lectures has been 58,961.

**PHOTOGRAPHY.**—The general photographic work has been extensive. The special feature of it has been the preparation of the large transparencies for the African Hall, which have been colored in oil.

The reference file of photographs has received several important additions. We are greatly indebted to Mr. A.

Radclyffe Dugmore for permission to make a series of prints from his remarkable negatives of big game taken in British East Africa. A similar courtesy has been extended by Mr. Kermit Roosevelt in connection with the negatives taken by him on his recent hunting trip with his father. Dr. Louis L. Seaman, another African traveler, has given the Museum permission to reproduce his photographs.

**CHILDREN'S ROOM.**—The Children's Room continues to enjoy the popularity which was manifested at its inception. While the main purpose of the room is recreative, an instructor is always present to answer questions and to guide the interests of the children in profitable channels. Owing to the limited equipment and to the cramped quarters now occupied, it is necessary to restrict the attendance, and many children have to be turned away. It is hoped that a patron may be found who will provide the necessary support for extending this work.

**ROOM FOR THE BLIND.**—Through the bequest of the late Phebe Anna Thorne and the generosity of her executors, a sum of \$25,000 has been provided as an endowment of the Room for the Blind, the income from which will provide ample funds for the development of this feature of the Museum's activities. This sum was given as a memorial to Mr. Jonathan Thorne, and a bas-relief tablet in bronze, executed by Mr. Chester M. Beach, has been placed in the room.

During the year, classes from the public schools and from the Institute for the Blind, as well as single visitors, have made use of this exhibit. Plans have also been made for supplying the classes of blind children in the public schools with special loan collections of nature study specimens.

The services of the instructor have been in increasing demand by teachers desiring to have their pupils guided through the Museum, and many special lectures have been given on request.

## MINERALS

L. P. GRATACAP, Curator

**DEPARTMENT OF MINERALOGY.**—The accessions for the year, of noteworthy importance, have been almost entirely confined to specimens procured through the interest of the

Matilda W. Bruce endowment. Among the additions from the Bruce Fund may be mentioned a remarkable Binnite from Switzerland, a Hambergite from Madagascar, the new and brilliant crystallizations of Phenacite from Brazil, the new and attractive Natrochalcite from Chile, Seligmanite from Montana, and the large clear Topazes from Texas. There have also been purchased, through the general appropriation fund, an interesting large twin Calcite from St. Lawrence County, New York, Tourmaline crystals from California and a beautiful native silver group from Houghton, Michigan. Mr. J. Pierpont Morgan presented to the department through Dr. George F. Kunz a very beautiful cut gem of the new gem-stone "Morganite," weighing 57 carats. This is the rose beryl from Mount Bity, Madagascar. With it we received an uncut specimen of the beryl itself. These specimens have been added to the Gem Collection and have attracted deserved attention.

No research work or collecting has been done, with the exception of some local examinations.

The exhibition of minerals is still unsatisfactory, but it is hoped that in the new hall, to which the department expects soon to move its collection, it will be possible to adequately meet the needs of the public, and also the indisputable claims of the collector and the student. This anticipated removal has made necessary the preparation of plans contemplating the new conditions, and plans also calculated to facilitate the mechanical problem of the removal itself.

The Curator has prepared this year a work entitled "Popular Mineralogy," in which is embraced a large section, descriptive, in a popular way, of the Bement Collection of Minerals.

## MAMMALS AND BIRDS

J. A. ALLEN, Curator

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.—The accessions in ornithology have been less than in several former years, but in mammalogy they greatly exceed those of any recent year in the history of the department, not only in number of specimens but in their importance. Nearly all have been acquired by purchase or through Museum expedi-

tions. The number of specimens of mammals received during the year is 1,068; of birds, 1,130 skins and about 125 sets of eggs.

As heretofore, valuable specimens of both mammals and birds have been received in the flesh from the New York Zoölogical Society, and many specimens, also in the flesh, from the Central Park Menagerie. Among the more noteworthy gifts are a small collection of birds from the Samoa Islands, including several rare species, and a topotype of a newly described cat from Tibet, from Honorable Mason Mitchell, U. S. Consul at Samoa; two skins of the Glacier Bear, from Alaska, presented by Mr. G. Frederick Norton, of New York City; a skeleton of the rare Giant Forest Pig (*Hylocharus*) of Africa, presented by Mr. K. V. Painter, of Cleveland, Ohio; a collection of small mammals from Colorado, received from Mr. N. G. Buxton, and a small collection of rare birds from the Hawaiian Islands, from Dr. C. H. Townsend.

During the year a valuable collection has been received from the Museum's Stefánsson-Anderson Arctic Expedition, consisting of 200 bird skins, numerous nests and eggs and nearly 100 mammals, the latter including a series of Barren Ground Caribou and White Sheep. Many of these specimens were obtained near the Arctic coast, in the Colville River district of Alaska, a region hitherto almost unexplored.

Mr. M. A. Carriker, Jr., has continued his work for the Museum in eastern Venezuela, and during the year has sent to the Museum about 200 mammals, many of which were new to the collection and several new to science. He has now transferred his field of work to western Venezuela, where he will remain during 1911.

Especially important acquisitions have been made through the work of Mr. Roy C. Andrews, Assistant in Mammalogy, who late in the season of 1909 was detailed to the "Albatross" on a trip of exploration through the Dutch East Indies, through the courtesy of the United States Bureau of Fisheries. Although opportunities for shore collecting were few and brief, Mr. Andrews secured about 350 specimens of birds and a considerable number of mammals, very few of



which were previously represented in the Museum's collections. On leaving the "Albatross" at Nagasaki, in February, 1910, Mr. Andrews was able to arrange with the President of the Oriental Whaling Company of Osaka for opportunity to secure skeletons of a considerable number of whales and porpoises, all of which have safely reached the Museum. They include the Sulphurbottom, Finback, Sperm and Sardine whales, all fully adult and of large size respectively for the species; also two Killer whales and ten porpoises, representing four species, one of them new to science. He was able also to study, photograph and take measurements of 180 large whales, and to study and photograph various parts of skeletons *in situ*, the relations of which cannot always be satisfactorily determined after maceration. Not only is Mr. Andrews entitled to great credit for the use he made of his opportunities, but the Museum is greatly indebted for courtesies and material assistance rendered to Mr. Andrews by the President and other officials of the Oriental Whaling Company, without whose cordial assistance such success would have been impossible.

Early in the year (February to May) Mr. F. M. Chapman, Curator of Birds, made a trip to the Mount Orizaba region of Mexico to secure material and data for a large "habitat group" to illustrate American tropical bird life. The trip was eminently successful, everything having been secured that can be required in the construction of the group.

Thus far no material has been received from the Museum's Congo Expedition under the leadership of Messrs. Herbert Lang and James Chapin. This expedition, which was made possible through the contributions of a number of friends of the Museum, left New York in May, 1909, with the expectation of remaining in the Congo for three years. Advices received from them give assurance that they have thus far met with most excellent success along every line of their work, the collections already made numbering thousands of specimens of birds and mammals, besides much material in other departments of natural history.

Mr. W. B. Richardson, who for three years collected mammals and birds for the Museum in Nicaragua, was sent on an expedition to western Colombia in October of the present



**A DINOSAUR MUMMY.** This dinosaur (*Trachodon annectans*) was discovered in Wyoming in 1908 by Mr. Charles H. Sternberg and purchased by the Museum through the Morris K. Jesup Fund



year, and a small collection has already been received from him. His work promises excellent results and will be continued during the coming year.

The White Bighorn Sheep Group was completed early in the year, and a Fur Seal Group, the gift of the late Mr. D. O. Mills, has been prepared and placed on exhibition; also a hippopotamus and several large African antelopes. The new Loon Group has been added to the series of Habitat Groups of Birds, and work on the Mount Orizaba Life-Zone Group is well under way.

Six papers, prepared by the Curator, have been published during the year in the Museum *Bulletin*, five of which relate to mammals and one to birds. One of them is a final report on the mammals recently received by the Museum from Nicaragua. As usual, the Curator has also had editorial supervision of the *Bulletin*.

Mr. Miller, Assistant in Ornithology, has spent much time on a monographic review of the birds of Nicaragua, based on the Richmond collection, which will be ready for publication in the next volume of the *Bulletin*.

## EXTINCT VERTEBRATES

HENRY FAIRFIELD OSBORN, Curator Emeritus; W. D. MATTHEW, Curator

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.—The most important accessions of the year have been through Museum expeditions to the Cretaceous Dinosaur beds of Montana and of Alberta, Canada, in charge of Mr. Brown, and to the Lower Eocene of Wyoming, in charge of Mr. Granger. Both expeditions were more than usually successful. Mr. Brown obtained a large and valuable collection, including skeletons of the Duck-billed Dinosaur, of a diminutive Horned Dinosaur and of a large Armored Dinosaur. Mr. Granger's party secured a skeleton of the Four-toed Horse, *Eohippus*, representing a somewhat older stage in the Ancestry of the Horse than has been known hitherto, besides a large series of skulls, jaws, etc., of Lower Eocene mammals, many of them new to science. Dr. W. J. Sinclair, of the geological staff of Prince-

ton University, joined this expedition as a volunteer, and contributed valuable observations upon the geology of the country, besides discovering many of the specimens secured.

A discovery of peculiar interest to citizens of New York is a considerable part of a dinosaur skeleton at Fort Lee, at the very gates of the city. This specimen was found in the red shales which underlie the trap rock of the Palisades about a mile and a half north of the ferry landing, and the animal whose bones are thus preserved probably wandered in life over what is now Manhattan Island. The Museum is indebted for this discovery to Messrs. J. E. Hyde, D. D. Condit and J. C. Boyle, postgraduate students under Professor Kemp of the Department of Geology of Columbia University.

Through the efforts of President Osborn, Dr. R. Broom, the distinguished palæontologist of Cape Colony, has been induced to collect in the interests of this Museum in the Karroo formation of that region, and has already secured a skeleton and a fine series of skulls of the ancient and peculiar types of fossil reptiles which inhabited Africa during the Permian Period.

The Museum has secured through exchange with the Tübingen University a fine Ichthyosaur skeleton, which when restored and mounted will afford an excellent companion piece to the Plesiosaur skeleton recently placed on exhibition. Other important exchanges have been made with the Stockholm and La Plata Museums. The exchange list in this department now includes the Museums of London, Paris, Berlin, Munich, Stuttgart, Tübingen, Frankfurt, Darmstadt, Basel, Prague, Lyons (City and University), Stockholm, Christiania, Moscow, Bucharest, Bologna, Stellenbosch, Adelaide, Buenos Aires, La Plata, and the Universities of Yale, Princeton, Michigan, Kansas, California, the National Museum and others.

Finally, in earnest of the cordial relations existing between this institution and the Senckenberg Museum of Frankfurt, the directors of that museum have recently notified us of their decision to present to us a splendid skeleton of *Mystriosaurus*, a marine crocodile of the Jurassic Period. This will be an important addition to the series of fine skeletons of

extinct marine reptiles of Europe which have been acquired chiefly through exchange and gift.

The most important additions to the exhibition series are the skeletons of *Cryptoclidus*, a Plesiosaur or marine reptile of the Jurassic Period, and of *Camptosaurus*, an American relative of the *Iguanodon* of Europe; a fine skull and jaws of the great Horned Dinosaur, *Triceratops*, and a skull of *Mastodon*. A number of important skeletons or groups are ready for exhibition or are in course of preparation. Of these the group of four great Ground Sloth skeletons (completed) and skeletons of a small ancestral Ground Sloth and of the peculiar extinct Ungulates, *Toxodon* and *Macrauchenia* (in preparation) are designed for the South American exhibit in the new hall soon to be occupied. A skeleton of the clawed ruminant, *Agriochærus*, and a panel mount of five skeletons of *Stenomylus*, an extinct Cameloid, have been completed for the Fossil Mammal Hall. For the Dinosaur Hall the skeleton of the Toothed Bird, *Hesperornis*, and the "Dinosaur Mummy" are completed; those of the primitive reptile, *Diadectes*, and the primitive amphibian, *Eryops*, of the Permian Period, are nearly completed; the *Tyrannosaurus* group, two giant carnivorous dinosaurs with their prey, is well under way, and work has begun on a mountable skeleton of the Horned Dinosaur, *Triceratops*.

In all the more important recent exhibits of this department the object has been, by grouping and selection of characteristic poses and by adding suitable accessories, to increase their interest and teaching value. This method, widely adopted for exhibits in recent zoölogy, appears to be equally successful in the exhibition of fossil vertebrates. With collections of the size that those of this department have attained, it appears important to aim at quality rather than quantity in its exhibits and to show a few impressive and instructive groups rather than a much larger number and variety of individual specimens.

A series of four large wall panels for the Tertiary Mammal Hall, the gift of Mr. J. P. Morgan, Jr., illustrating faunal life scenes in that period, has been designed and the preliminary drawings completed by Mr. Knight, under direction of Professor Osborn.

Mr. Chubb has continued his work upon modern osteology, especially of the horse, and has several important preparations completed or in progress.

The most important publication of the year from this department is Professor Osborn's "Age of Mammals," published by the Macmillan Company, in which for the first time the results of the great activity of recent years in collecting and research upon fossil mammals have been brought together in popular form. This work has been accomplished through the aid of the Research and Publication Fund. No adequate text-book on this subject hitherto has existed, and the need for one has been frequently urged. "The Orders of Mammals," by Dr. Gregory, an able and philosophic study of the relationships of the various large groups of mammals, living and extinct, issued as Vol. XXVII of the *Bulletin*, also has been very favorably received. Studies of the *Tyrannosaurus* skull and the *Trachodon* mummy by Professor Osborn, upon the Toothed Birds by Mr. Brown, upon Permian Vertebrates by Dr. Case and Dr. Broom, upon Sabretooth Tigers and Primitive Rodents by Dr. Matthew, have been completed, and other important research work is in progress.

In consequence of the heavy demands upon Professor Osborn's time as President, Dr. Matthew has been appointed active Curator, Professor Osborn taking the title of *Curator Emeritus* and continuing to direct, as formerly, the general policy of the department, while relieved of its executive detail. Mr. Barnum Brown has been appointed Associate Curator of Fossil Reptiles, and Mr. Walter Granger, Associate Curator of Fossil Mammals; these appointments are a well merited recognition of their successful exploration work and efficient and loyal coöperation in the various activities of the department. The department is also fortunate in the addition of Dr. W. K. Gregory to its regular staff.

#### LIVING REPTILES, BATRACHIANS, LIVING AND EXTINCT FISHES

BASHFORD DEAN, Curator; LOUIS HUSSAKOF, Associate Curator

DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY.—Professor Bashford Dean served as Curator until April and then

handed the department over to Dr. Louis Hussakof, who took charge of the fossil fishes. The care of the living fishes was assigned to Mr. Nichols, under the supervision of the Director, and that of the living batrachians and reptiles to Miss Dickerson, also under the supervision of the Director.

LIVING FISHES.—Early in March the operations of the yacht "Tekla," which had been cruising in Florida waters for several weeks under command of Messrs. Alessandro and Ernesto Fabbri, came to an end. Through the kind interest of the Messrs. Fabbri, the Museum received by gift collections of fishes made during this trip, chiefly under the direction of Mr. Nichols. The Museum also received as a gift from the Messrs. Fabbri the moulds of a large cub shark and of a fourteen-foot saw-fish, both of which have been largely remodeled and cast and are now displayed in the Corridor of Recent Fishes.

Through the generosity of Mr. Cleveland H. Dodge, the department was enabled to send for a period of seven weeks (middle of March to the end of April) an expedition to Moon Lake, Mississippi, for the purpose of collecting materials for an exhibition group of that singular ganoid, popularly known as the paddlefish. The expedition succeeded beyond all expectation. The specimens were collected, the necessary color studies and photographs made and moulds of fish in various attitudes prepared. The entire material now awaits preparation into a group. This expedition was in charge of Dr. Louis Hussakof, who acted under the general direction of Professor Dean and was ably assisted in the field by Mr. Dwight Franklin of the taxidermist staff of the Museum.

The summer's fishing trip of Mr. Russell J. Coles, of Danville, Virginia, may also be regarded, in a way, as a Museum expedition, for it resulted in the gift to the Museum, by Mr. Coles, of a valuable collection of fishes from the North Carolina coast, including several forms which are exceedingly rare and one (a batoid shark, *Mobula ölfersi*) which was previously known from but two examples.

Among the important exhibits, already installed or in course of installation, may be mentioned the large cub shark and the fourteen-foot saw-fish, referred to above, also a nine-foot sword-



fish, the gift of Mr. George McKesson Brown. Other preparations, including a model of the Japanese frilled shark, *Chlamydoselachus*, and of a tunny are under way and not far from completion.

The identification and cataloguing of recent fishes has made very satisfactory progress and work on the study collections has steadily progressed.

Mr. Nichols has prepared a list of the species of fishes occurring within fifty miles of New York City. This will undoubtedly be of great help in the work of the department in selecting recent fishes to be introduced into the exhibition, and will be invaluable when it becomes possible to have an especial "local" collection.

The unidentified "lantern fishes" in the Museum's collection have been worked up by Professor Charles H. Gilbert of Stanford University, but are not yet published.

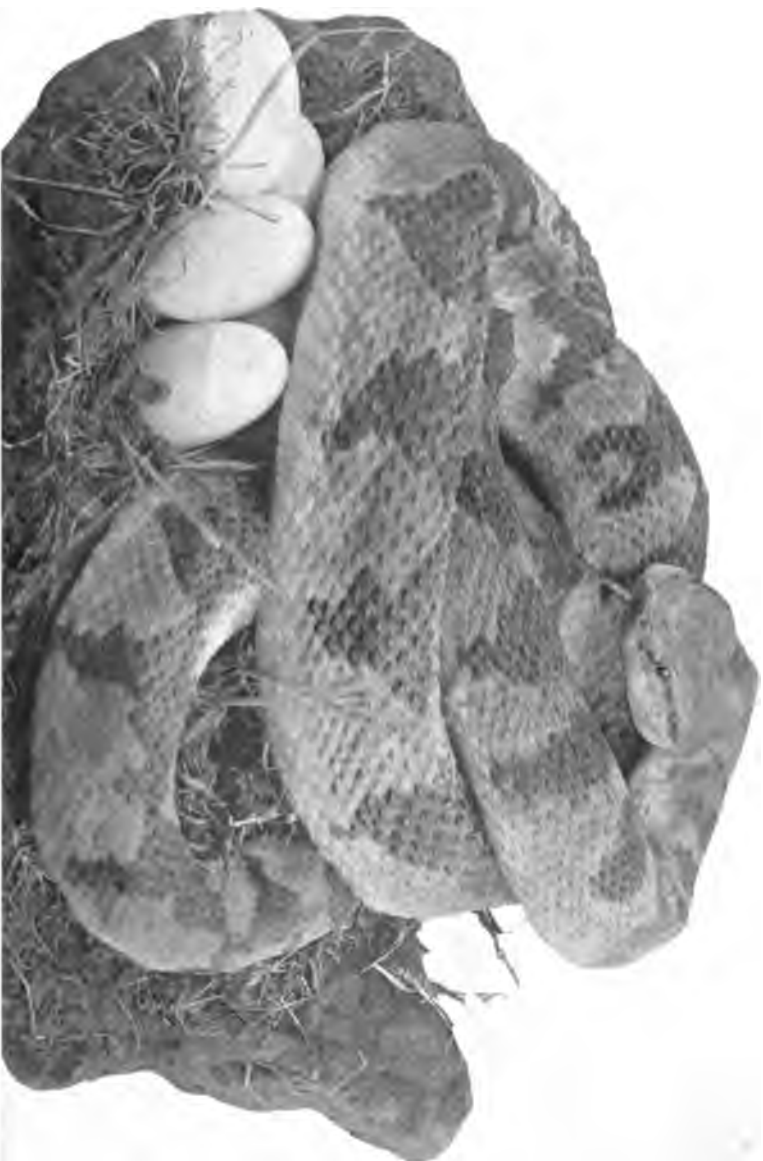
Mr. Nichols has now in hand a collection of mackerel-like fish from Java which he is identifying for the United States National Museum.

**FOSSIL FISHES.**—By the aid of the Dodge Fund, the Museum acquired a valuable collection of the primitive fossil fishes, known as Arthrodira, which was brought together in the course of a number of years by Mr. Peter A. Bungart, of Lorain, Ohio. The collection comprises sixty pieces, including several unique specimens of great scientific value.

Dr. Hussakof has devoted a considerable portion of his time during the past year to cataloguing, revising and rearranging the study collection of fossil fishes.

The fishes of the Permian Period and the Silver Sharks (*Chimaroids*) of the Chalk Period, in the Cope collection, have been restudied and the results embodied in two scientific papers, one of which is in press and the other nearly ready for publication.

The fossil fish exhibit has been improved by the addition of several specimens, including a cast of a remarkable "Placoderm" from the Old Red Sandstone of Scotland, *Homosteus milleri*; and its popular interest has been enhanced by the addition of maps and labels. An exhibit to illustrate the



**THE "BUSHMASTER."** One of the longest and most venomous of the poisonous snakes of the New World, and supposed to be the only species of Crocotaline snake that lays eggs. This model was cast in wax by Mr. Dwight Franklin and colored by Mr. Thomas Bleakney from a specimen presented by the New York Zoological Park, through the courtesy of Mr. Raymond L. Ditmars



evolution of the lungfishes, to consist of a series of seven models of fishes in bas-relief, is in course of preparation.

LIVING REPTILES AND BATRACHIANS.\*—In exhibition work there has been progress on a synoptic series, especially in those directions in which live material could be obtained, and reference must be made to the courteous help of the New York Zoölogical Park and of the New York Aquarium in loans and gifts of such material for color study and casts. In this series emphasis has been put not only on identification and classification, but the representative forms are shown also in action and sometimes in a simple habitat so that additional facts are presented in life history, habit and adaptation to environment.

The preparation of wax casts from plaster moulds, the animals being posed in active positions from life, has been very largely the method of the work, and the results display accurate life form and texture. The final illusion has been given by coloring directly from living animals. That the work has resulted in setting before the visitor to the Museum the beginning of a collection of lifelike amphibia, forms hitherto shown in alcoholic specimens only, and the beginning of a similar series of reptiles, is due largely to the excellent craftsmanship of the preparators, Messrs. Dwight Franklin and Thomas Bleakney, to Mr. F. Blaschke in those cases where the forms were modeled instead of cast directly, and to Mr. G. C. Bell in some dozen cases where complex piece moulds were necessary. The total number of casts and models for the synoptic series, completed or nearly so, is eighty-eight.

There is in preparation also a series of skeletons. These are posed in life positions and show not only osteological facts but also emphasize facts of popular interest, such as the spreading of the ribs to form the hood of the cobra. These skeletons, to the number of eighteen, have been prepared by Mr. Adolph Elwyn of the Department of Physiology.

A series of groups to cover the herpetology of North America, as the Habitat Bird Groups cover the ornithology,

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\* Report prepared by Mary C. Dickerson, Assistant Curator of Herpetology.

has been planned and work has progressed on three until they will soon be ready to assemble. The total number of casts made for these groups is eighty-seven, making a grand total for the synoptic series and casts of one hundred and seventy-five. The groups are as follows:

First, a group to show some of the common batrachians and reptiles of a summer pond in the coastal region of the north-eastern United States, with the bullfrog especially prominent. The plant accessories for this and the other groups under way have been made by Mr. Patch and other assistants in the department of preparation. Fourteen wax casts of bullfrogs are ready to take their places in this setting. They have been cast and colored by Mr. Franklin. They teach as far as possible the general biology of the frog, covering the questions of life in water and air. Painted turtles, adult and young, for this group have been cast by Mr. Franklin and colored by Mr. Bleakney. The second of the groups will present a study of the toads of southern New England in May. Fifteen toads of two species, *Bufo fowleri* and *Bufo americanus*, have been cast in wax by Mr. Franklin and colored by Mr. Bleakney. The positions and activities chosen present forcefully the habits of the toad. Secondary in interest are green frogs, common tree-toads, painted turtles and water-snakes. The third group will show wood frogs, Pickering's hylas, spotted turtles and ribbon-snakes. Fourteen wood frog casts, seven hyla casts and two casts of spotted turtles are completed. In addition to these three groups twenty-four casts are completed as a partial equipment for a southern group.

Research on the relationships of certain specimens of Bufonidæ of the United States and on the ecology, general biology and taxonomy of the Urodela of North America has progressed, though slowly because of the demands of other work.

A short field expedition was made into southern Massachusetts in July for collections and study relating to the bullfrog group. Much material for the accessories was obtained and many photographic studies were made. The field trip planned to South Carolina for work on an alligator group had to be postponed because of pressure of work in other lines.

Work has progressed on a reference catalogue of the collection of amphibia and reptiles which is to be moved into a well-equipped fifth floor room for greater convenience in the work. Negotiations are pending for important exchanges with scientific institutions. Much valuable material has been acquired and catalogued through the generosity of the Cleveland H. Dodge Fund and through other gifts, especially those from the New York Zoölogical Park and the New York Aquarium.

### LIVING INVERTEBRATES—DARWIN HALL

HENRY EDWARD CRAMPTON, Curator

DEPARTMENT OF INVERTEBRATE ZOÖLOGY.—Substantial progress has been made in all the varied lines of activity in which the department is engaged. The several exhibition halls have been developed, successful field work has been carried on, the study collections have been considerably augmented, while at the same time scientific investigations by members of the staff have been continued with success. Through its recent reorganization the department is now composed of three divisions. The first of these, under the immediate supervision of Mr. Miner, is concerned with the general invertebrate collections, the Darwin Hall and the preparation room. The second, in charge of Curator Gratacap, deals with the collections of molluscs and with the exhibition Hall of Molluscs. The entomological collections as a whole, together with the Hall of Insect Life and of Local Insects, are under the general charge of Dr. Lutz, whose staff of assistants has been materially strengthened by the addition of Mr. Grossbeck, appointed August 1, 1910. Mr. Beutenmüller is in immediate charge of the Lepidoptera.

For the furtherance of his service to the Museum, and also in connection with his own research, during the past summer Curator Crampton visited numerous museums and zoölogical institutions in England, France, Belgium, Holland, Germany, Austria and Italy. Especially profitable was an additional visit to the Oceanographic Museum at Monaco. The present plans for the further development of the department, as regards

explorations and the collection, study and exhibition of invertebrates, consequently have been formulated on the basis of a fuller acquaintance with scientific institutions and scientific men in Europe and America, with museum methods, and with the problems and methods of field exploration.

**INVERTEBRATES IN GENERAL.**—The synoptic series in the Darwin Hall has been amplified by a series of nine models and twenty-five alcoholic specimens. The policy of installing biological exhibits like the Cold Spring Harbor Group has been continued and two striking groups are now approaching completion. One of these presents an association of annelid worms as they occur on the shore of Devil's Foot Island, Woods Hole, Massachusetts. The second gives a typical association of submarine animals occurring on the piles of a wharf. Additional groups of a similar nature are projected. The value of such exhibits is realized in their presentation of the biological conditions under which typical invertebrates exist. Of a still more general nature are projected exhibits designed to illustrate variation, heredity, distribution and similar phenomena of evolution.

During the year the study collections of invertebrates have been thoroughly overhauled, reclassified and permanently installed in fireproof cases, the work being completed in the case of six phyla. The remaining groups will be similarly treated during the coming year. The study collections have been increased by numerous gifts as well as by the work of the Museum's collectors. Mr. Miner secured a wide series of invertebrates from the coasts of Massachusetts and Maine. Professor Treadwell obtained a valuable collection of annulates from Dry Tortugas, Florida. Dr. Hussakof and Mr. Franklin collected myriapods, spiders, ants and other forms in the course of their work in Mississippi for the Department of Ichthyology. Dr. Lutz also obtained various invertebrates during his entomological work. The collections of echinoderms, crustaceans and other marine types made by Dr. Crampton in the South Seas have also been incorporated in the study series.

Mr. Miner, assisted by several members of the preparation



COLD SPRING HARBOR GROUP. Invertebrate life of a Long Island shore, as seen at half-ebb tide





room staff, spent over two months in field work on the coasts of Massachusetts and Maine in order to add to our general collections and also to make observations, photographs and drawings of detailed items for use in constructing habitat groups of seashore life for the Darwin Hall.

Dr. Crampton has several publications nearly ready for printing: these are the first instalment of a monograph on "The Distribution and Evolution of Polynesian Snails," a paper on "Natural Selection in Lepidoptera," a book on "The Doctrine of Evolution" (Hewitt Lectures of Columbia University), and a paper on "The Heredity of the Single and Double-brooded Characters in *Cynthia*." The Catalogue of Spiders by Dr. Petrunkevitch is now in process of printing by the Museum.

**MOLLUSCS.**—The accessions of principal importance in this division during the past year have been an interesting and useful gift by Mr. A. D. Gabay of a series of polished shells (for the most part of the sea abalone or *Haliotis*), and the purchase of a few land shells from Jamaica and of a group of very beautiful polished pearl-bearing fresh-water clams from the Middle West.

A great deal of time has been expended in making preparations for the occupation of the new Hall of Molluscs, wherein will be more clearly shown and elucidated the habits, biology, evolution and distribution of these most variously conditioned and contrasted animals. Attention may be called to the advantages of devoting a single room to a study storage collection, in which would be contained, as far as possible, a complete systematic series of all the species in the present collection, which is a composite of almost half a dozen large assemblages of shells and in which, indeed, none of the numerous accessions made in the last eight years has been incorporated.

Literary work in the section of Molluscs has been confined to the beginning of a work on the marine shells of the eastern United States.

**HALL OF LOCAL INSECTS AND INSECT BIOLOGY.**—The most striking feature in the entomological work of 1910 has been

the growth of the Local Collection now under the custody of the New York Entomological Society, due to the continued cordial relations between the Society and the Museum. The accessions by gift to this collection are only an imperfect indication of the work the Society has done, as members have given liberally of their time and experience in naming specimens and working out other scientific problems in connection with the insect fauna of the vicinity of New York City. In addition, it has been the privilege of the Museum to aid in the work of the local entomologists by furnishing a much appreciated "home" on the north side of the exhibition hall and by the loan of literature and specimens for their studies.

The Museum itself has added to the Local Collection from the Newcomb purchase and by numerous field trips within fifty miles of New York City. A valuable supplement to the specimens of local insects is a collection of plants and notes concerning the feeding habits of insects, which has been given by Dr. E. B. Southwick. It is proposed to install this collection in Dr. Lutz's office where it will be available and convenient to any student who wishes to determine what plant it is upon which he has found an insect, what other insects feed upon that plant or what other plants that insect feeds upon. The largest additions to the general insect collection have been the Tower collection of Mexican insects, which is deposited with the Museum, and the Sauter collection from Sumatra. Negotiations have been completed for the purchase of the Williston collection of tropical American Diptera. By securing this collection the Museum will become an important center of dipterology, as it already has many types in this order.

The work of getting the general collection of insects into shape is making definite progress, thanks to the additional assistants who have been available during the past few months. The Hymenoptera, Diptera and Orthoptera have been arranged as far as is profitable in view of the fact that for the most part they are uncatalogued and in great part unidentified; the other orders are not yet arranged even in this preliminary way. About twenty thousand specimens have been catalogued. A large number of identifications has been made, chiefly by outside assistance. This latter task is necessarily slow, as

much of the identified material which we have for comparison has not had the taxonomy brought up to date.

During the summer Dr. Lutz carried on extensive field work in the region around New York City. At a conservative estimate he obtained about twenty thousand insects belonging to at least fifteen hundred species. In this work Dr. Lutz was fortunate in having the cordial coöperation of many noted entomologists, among whom are Messrs. Sleight, Davis, Leng, Love, Pollard, Harris, Schaeffer, Watson and Wintersteiner. The results of this work are of high importance not only for the survey of our surrounding territory but also for the larger problems involving a comparison of the local fauna with insects of other regions of the United States, Mexico, Central and South America.

The development of the Hall of Insect Life and of Local Insects has progressed along the lines laid down last year with extremely satisfactory results. When fully installed, the exhibits in this hall will provide the student with a complete outline of entomology and of insect biology; this cannot fail to be of great service to the public and to the educational system of New York City.

Dr. Lutz has completed a monograph dealing with experimental work upon *Drosophila*; this is now in the hands of the Carnegie Institution for printing. Mr. Beutenmüller has continued his work upon the North American species of insects that produce galls; three papers have been published, and others are in preparation, as well as an extensive monograph on the *Catocala*. Professor Wheeler's splendid work on "Ants" has appeared. This remarkable volume reflects great credit upon the author and also upon the department and the Museum, through his connection with the latter as an Honorary Curator.

## GEOLOGY AND EXTINCT INVERTEBRATES

EDMUND OTIS HOVEY, Curator

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY.—The principal accessions during the past year have been in the line of general and economic geology rather than invertebrate palæontology. Mention should be made of a large

stalagmite and an abundance of other material from the walls of a cave opened in the course of ordinary operations in the Copper Queen Mine, Bisbee, Arizona, during the past summer. The material was collected under the direction of the Curator for the purpose of constructing a cave in the Hall of Geology, and has been presented to the Museum by the Copper Queen Consolidated Mining Company. Other important acquisitions are the Knowles meteorite, a mass of nickel iron 18 inches long and 14 inches high, weighing 355 pounds, from Knowles, Oklahoma, a unique mass found in 1903; a 218-pound mass of the siderolite form of the Brenham meteorite, being the second largest mass of this phase known, and a beautiful slice of El Inca, Peru, an iron meteorite showing excellent Widmanstätten figures.

The Curator spent about a month in the field in Arizona for the purpose of making studies for the preparation of the Copper Queen Mine model, which is to be the gift of Dr. James Douglas. He took with him a map maker, a photographer and a preparator, who spent several weeks gathering the data needed for the construction of the model, in addition to those furnished by the engineering and geological staff of the Copper Queen Consolidated Mining Company.

Some important changes have been made in the arrangement of the material in care of this department. The Ward-Coonley collection of meteorites (which is on loan at the Museum) has been removed from the Hall of Geology and placed in the corridor next west of the foyer. The general Museum collection of meteorites has been transferred from the Department of Mineralogy to this department and has been installed in six metal-framed cases in the foyer. In addition to this we have installed the new Knowles meteorite, the newly acquired mass of the Brenham meteorite and the El Inca meteorite in the foyer. The specimen of El Inca is a polished slab showing the entire section of the meteorite, and it has been mounted in its proper position in a bisected model of the entire mass, forming a noteworthy addition to the series. These changes in installation have brought together in two contiguous rooms the best series of meteorites in this country and one of the best in the world.

A giant specimen of *Inoceramus*, more than four feet across, from the Niobrara Chalk beds of Kansas, has been carefully restored as far as the material permitted and has been placed on exhibition.

The smaller of the two specimens of glacial grooves from Kelly's Island, which were obtained in the fall of 1909 with the aid of the Dr. F. E. Slocum Fund, has been squared up and mounted at the south end of the Hall of Geology.

In the main Hall of Geology, metal-framed cases have been installed, as an experiment with reference to the recasing of the entire hall. On account of the taking of the south central hall of the building (what has been the Mineral Hall for the past ten years) for the exhibition of Quaternary mammals, etc., it has been decided to reverse the arrangement of the specimens in the Hall of Geology and have the historical series begin at the south end instead of the north end as at present. Work upon this change will be begun in January.

The Curator retained the editorship of the *American Museum Journal* through the issue of the May number, and then was relieved of the duty. He was ably assisted in this editorial work by Miss Mary C. Dickerson, who has since been sole editor of the *Journal*.

CHANGES IN THE STAFF.—On 31 December, 1909, after more than thirty-two years of active service, Professor R. P. Whitfield was retired from the curatorship of this department and made its *Curator Emeritus*. The full care of the department was assigned to the present Curator beginning with 1 January, 1910, although the official appointment was not made until the time of the Annual Meeting of the Board of Trustees. After a lingering illness of several weeks, Professor Whitfield died at Troy, N. Y., on 6 April. He was a remarkable man in many ways. Although he had had practically no school training, his mind was naturally so methodical in its workings, his faculties of observation were so keen and his memory for places, dates and form so retentive that he became one of the foremost palæontologists of his generation and rendered invaluable service to the Museum, par-

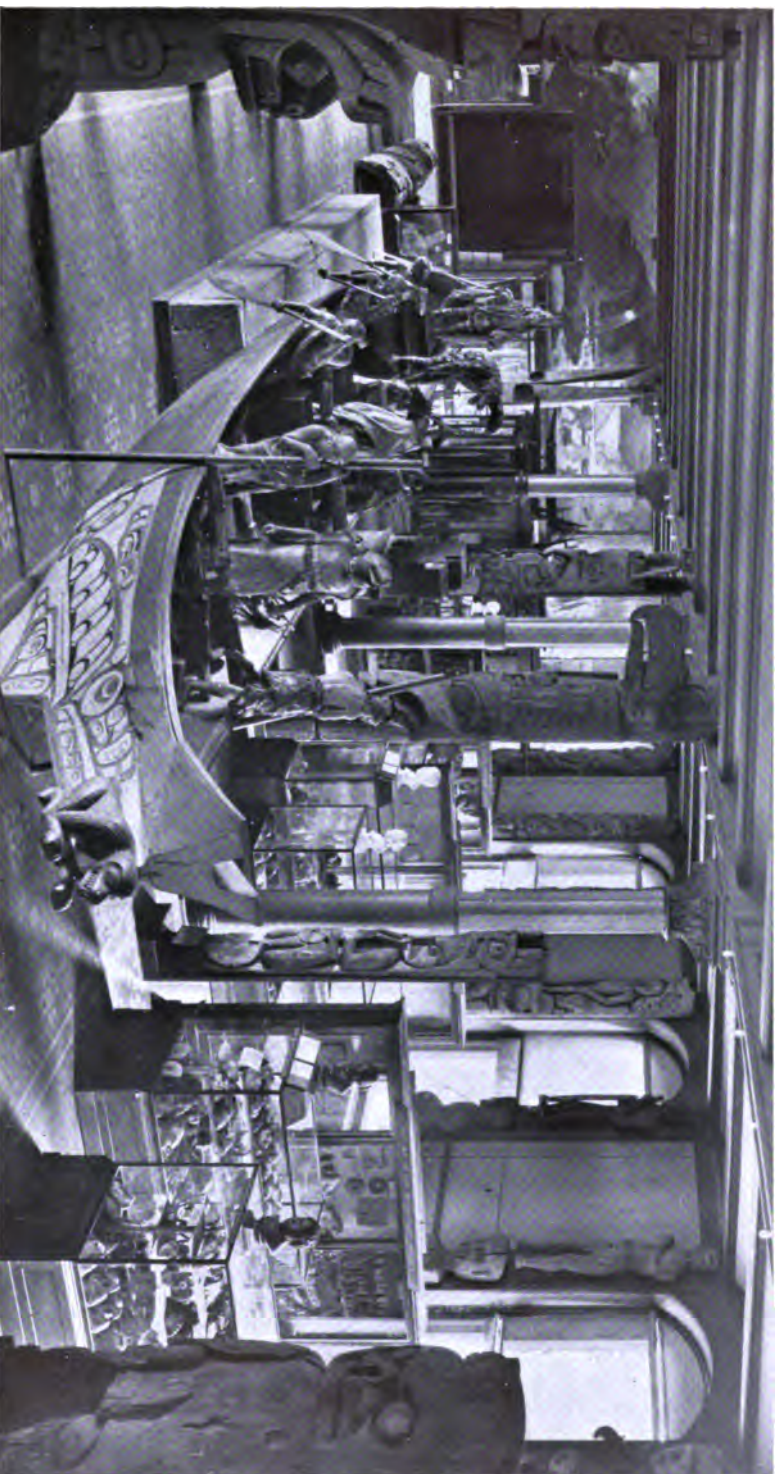
ticularly with reference to the identification, labeling and care of the great Hall collection of fossils. He is greatly missed in the Museum.

## LIVING AND EXTINCT RACES OF MEN

CLARK WISSLER, Curator

DEPARTMENT OF ANTHROPOLOGY.—This has been an exceptional year in the acquisition of large and important collections. Mr. J. P. Morgan presented the Lenders collection of costumes and decorated objects from the various Indian tribes in central North America. This is a very complete and extensive collection and especially valuable as an exhibition series for that area. A large collection from the Hopi Indians made by Rev. H. R. Voth was purchased by authorization of the Appointive Committee on Primitive Peoples of the Southwest, of which Mr. Archer M. Huntington is Chairman. This collection contains many of the older and rarer pieces illustrating Hopi ethnology. From Mr. Anson W. Hard was received a large series of Saltillo and Chimayo and other native fabrics from southwestern United States. The pieces from the Chimayo are of the older type, examples of which have not been manufactured for many years, these Indians being now practically extinct. A special collection of Navajo blankets was presented by Mrs. Russell Sage. By purchase was acquired the Starr Congo collection made by Professor Frederick Starr during two years' exploration in Central Africa; the Benedict Bagobo (Philippine) collection made during three years' exploration by Miss Laura E. W. Benedict, and the Tefft American Indian collection presenting a large series of objects, especially from tribes of the Eastern Woodlands, the result of several years' collection and selection by Mr. Erastus T. Tefft.

Among the important collections made by members of our staff are those from the various divisions of the Apache and the Navajo by Associate Curator Goddard; collections illustrating the material culture and arts of the various Rio Grande Pueblo villages by Assistant Curator Spinden; collections from the Papago and other Indian tribes of Arizona by Curator Wissler, all of which were made under a grant from the Committee on Primitive Peoples of the Southwest. In



THE HAIDA CANOE (more than sixty-four feet long) in the North Pacific Hall of The American Museum of Natural History





connection with the systematic work among Indians of the Plains under the direction of the Committee on Indians of the Plains, of which Mr. Archibald Rogers was Chairman, a collection representing the general ethnology of the Crow Indians was brought together by Assistant Curator Lowie; a collection from the Hidatsa and other Village Indians was made by Assistant Curator Lowie and Rev. Gilbert L. Wilson, and a collection illustrating the ceremonies and medicine practices of the Menomini Indians also a special collection from the Seminole Indians of Florida were made by Assistant Skinner.

Under a special grant from the Committee on Primitive Peoples of the Southwest, collection and investigation were carried on among the Apache, Navajo and Pima tribes and the Rio Grande Pueblos. Dr. Goddard spent several months among the several divisions of the Apache, the results of which will appear in a special publication. Dr. Spinden continued the work of last year on material culture among the Rio Grande Pueblos, giving special attention to the historic aspects of the ceramic art. Miss Kissell is visiting the Papago and the Pima tribes of Arizona investigating the textile arts.

Under the general appropriation for North American Research the systematic work of former years was continued among the Northern Plains tribes. Dr. Lowie spent the summer among the Crow and Village Indians, giving special attention to the men's societies. Rev. Gilbert L. Wilson visited the Hidatsa. Mr. Alanson Skinner took up the work of former years among the Menomini, particularly the unusual ritualistic development and medicine practices still extant. Under the direction of the Curator, Mr. D. C. Duvall gathered new data on the ceremonies of the Blackfoot Indians. Dr. J. R. Walker made some progress with the collection of native manuscripts from Dakota Indians.

During the year three new ethnographic halls were added to the general series: one for Africa and two for North America. The African exhibit presents, so far, a representative series from the Congo region. To this will soon be added collections from other parts of the continent. By means of several life-size figures and a series of mural sketches, the

effectiveness and force of this exhibit have been increased. For North America two general culture areas now have fair representation—the North Pacific coast and the Southwest. An entire hall is now given over to the nomadic and sedentary peoples of southwestern United States and northern Mexico; the Emmons and other collections for the tribes of southern Alaska and western British Columbia have been rearranged and provided with new cases; the Hall of Mexican and Central American Archæology has been moved to the second floor. On the fourth floor progress has been made with a hall for the South Sea Islands and another for the Philippines. A series of mural panels for the North Pacific Hall and a number of plaster figures for a canoe group are nearing completion.

The formal statements of research by the staff are published in a special series entitled "Anthropological Papers." During the year the Curator issued "The Material Culture of the Blackfoot Indians," in connection with which there was a general comparative review of corresponding results in our systematic survey of the area. Associate Curator Smith issued an archæological survey of the Yakima Valley, with comparative notes on the whole Columbia region. He also prepared for immediate publication a full report on excavations in northeastern Kentucky, demonstrating the similarity between the aboriginal culture in that part of the State and the so-called Fort Ancient area of Ohio. A number of minor studies, based upon collections received during 1909, was issued under the editorship of Assistant Curator Lowie, among which may be mentioned descriptive notes on the Winnebago and Cherokee (Skinner) and some new points on the Central Eskimo (Waterman). Dr. Aleš Hrdlička of the National Museum made a detailed study of skulls and other parts of skeletons from the Central Eskimo, pointing out some new and significant relationships.

For future publication the Curator completed a manuscript treating of investigations into the social organization of the Blackfoot Indians. Assistant Skinner has ready for publication an ethnological study of the Eastern Cree. Associate Curator Goddard is now engaged on the ethnology of the Apache tribes and Assistant Curator Lowie on the Crow and Village Indians.

## PHYSIOLOGY

RALPH W. TOWER, Curator

DEPARTMENT OF PHYSIOLOGY.—Much of the time of the preparator, Mr. Elwyn, has been occupied in completing work which has been requisitioned by other departments. Some time, however, has been devoted to perfecting the device designed to illustrate the mechanism of respiration. The apparatus is composed of an artificial thorax, constructed from glass, and supplied with a rubber diaphragm. Within this thoracic cavity is suspended a lung, so prepared that it has retained its elasticity. By a mechanical device the diaphragm is made to expand and contract, and thus cause the alternate expansion and contraction of the lung as in normal breathing. Another apparatus illustrating the passage of a nerve impulse over a sensory fiber to the brain and return over a motor fiber has been designed; the same device will also show the phenomenon of reflex action.

The preparation of one hundred and thirty-six skeletons and eight hundred and forty-three skulls, large and small, has been completed during the year. Particular attention has been given to the osteological preparation of fishes, amphibians and saurians intended for exhibition by the Department of Ichthyology and Herpetology; in this work the digestion method has proved unusually effective.

The equipment in the preparation room at the present time is quite inadequate, and it is hoped that some change may soon be made to improve these unfavorable conditions.

The department has received in the flesh one hundred and eleven specimens from the Central Park Menagerie, fifty-six from the Zoölogical Society, and nineteen from other sources, making a total of one hundred and eighty-six animals.

## PUBLIC HEALTH

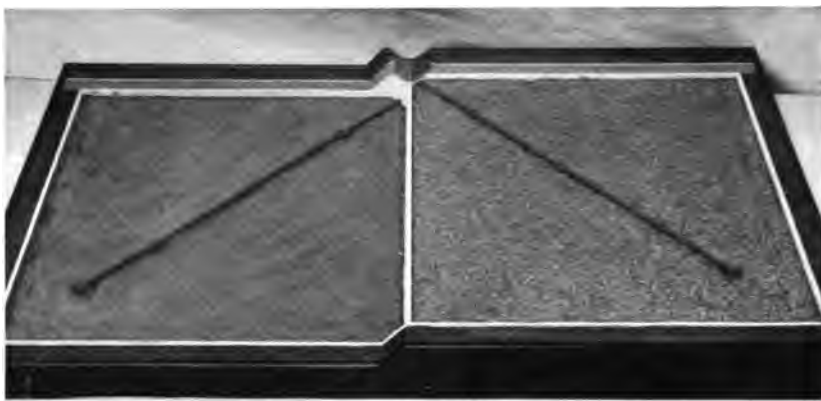
CHARLES-EDWARD AMORY WINSLOW, Curator

DEPARTMENT OF PUBLIC HEALTH.—The widespread interest in the Tuberculosis Exhibit, which was held at the Museum in 1908-1909 with an attendance of more than a million, demon-

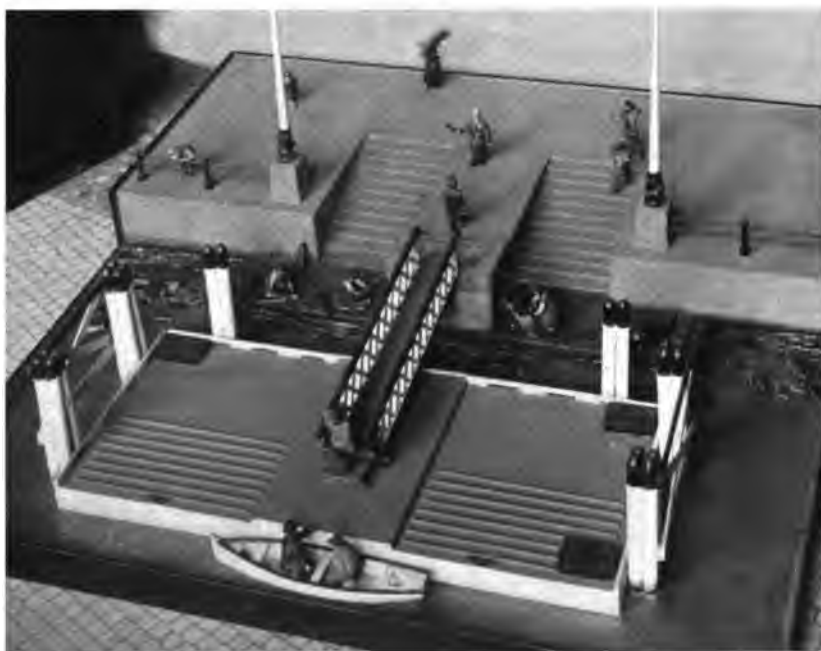
strated the practicability of having a department in the Museum which should have for its function the presentation of matters pertaining to public health. Primarily, it was the popularity of the Tuberculosis Exhibit, combined with the increased public attention which is being given to sanitation, water supply and other municipal problems of this nature, which induced the Trustees to establish a Department of Public Health in the Museum.

The work of this department began the first of September, 1910. A bacteriological laboratory has been equipped with facilities for keeping under cultivation living bacterial species in what might be termed a "museum collection." This is the first attempt in this country to standardize these forms of life through museum methods. Arrangements have been made with the leading laboratories in New York, Chicago, Baltimore, Washington and Boston for obtaining specimens of the organisms in their possession. The department will act as a central bureau for the preservation of cultures of pathogenic and non-pathogenic bacteria (particularly of types of new forms and varieties), and for their distribution to corresponding laboratories and schools and other institutions which may desire them.

The principal work of the department since its institution has been devoted to the preparation of an exhibit of sewage disposal models, to illustrate present conditions in regard to the pollution of the harbor waters of New York and the methods available for the safe and inoffensive disposal of city waste. This subject was selected because the Metropolitan Sewerage Commission of New York was to make an exhibit at the Museum this winter, and it was felt that the department could do a useful work in supplementing the charts of the Commission with graphic models. The fourteen models which have been prepared form a fairly complete presentation of the most important aspects of the subject, and constitute a suitable nucleus for a permanent Museum exhibit on the subject of sewage disposal. A *Guide Leaflet* has been prepared in connection with this exhibit, which it is hoped may be of service in elucidating the principles underlying the task of the protection of river and harbor waters.



DOUBLE CONTACT BEDS FOR THE PURIFICATION OF SEWAGE  
Model in The American Museum of Natural History



PICKING UP POLLUTED DRIFTWOOD ON THE STEPS AT BATTERY PARK  
Model in The American Museum of Natural History



To coöperate with the Curator, President Osborn has invited the following well-known scientific men to serve as an Appointive Committee for 1911:

Dr. SIMON FLEXNER, Director of the Rockefeller Institute of Medical Research.

Mr. JOHN M. GLENN, Director of the Sage Foundation.

Mr. J. WALDO SMITH, Chief Engineer of the Board of Water Supply.

## WOODS AND FORESTRY

MARY C. DICKERSON, In Charge

Work has progressed in the arrangement of the trees of the Jesup Collection in natural groups or families with the specimens of market value made prominent in these groups, also on the work on wax models of leaves, flowers and fruits, and on comprehensive descriptive labels. The department has extended its services to many commercial and private interests in and about New York City for identification of woods, and to high schools in the formation of outlines for study of the trees in the Jesup Collection.

Through the courtesy of the United States Forest Service, Doubleday, Page & Company, and the J. Horace McFarland Company, collections of valuable tree and forest photographs have been obtained to be used in the Forestry Hall for sepia enlargements and colored transparencies. Plans are in hand for increasing the usefulness of the hall at this time when forestry is to all people a question of national importance, by adding correlated exhibits in the alcoves between the cases of the Jesup Collection. These will illustrate forest conservation with effects on soil erosion and soil fertility, practical work in growing trees, as well as the value of trees for public health—thus embodying the original interests of Mr. Jesup.

The department has in press a *Guide Leaflet, Trees and Forestry*, to accompany the Jesup Collection. It presents the status of the forest conservation question in 1910, gives elementary facts concerning the life and structure of a tree,



the structure of wood and the growth of trees, everywhere putting emphasis on the market woods. It has also a chapter on the identification of trees in winter.

In addition to regular departmental work, the associate editorship of the *American Museum Journal* and *Guide Leaflets* was carried until June, when the editorship was assumed.

## THE LIBRARY

RALPH W. TOWER, Curator

DEPARTMENT OF BOOKS AND PUBLICATIONS.—To establish a library of natural history was one of the chief concerns of the founders of this Museum and accordingly provision therefor was included in the contract of 1877 with the City. During the first thirty years the library did not grow apace with other departments of the institution. It is true that during this period many and valuable private collections were presented to it, but apparently no sustained effort was made to combine them into a practical unit either by revision or accession. During the last decade enthusiasm has increased, several scientific societies have deposited their books in our custody, and altogether a serious attempt has been made to make this library one of the most comprehensive and complete of its kind in the country.

The present library represents the collections of the New York Academy of Sciences, The New York Microscopical Society, The Linnæan Society of New York, The American Ethnological Society and The American Museum of Natural History, which total in scientific works some 40,000 volumes and 20,000 pamphlets. It is important to note here that each pamphlet is bound, indexed and takes its place on the shelf together with the other volumes, thus becoming an accessible and efficient work of reference.

The assembling under one roof of the libraries of these scientific institutions has secured a very important and valuable series of the publications of the learned societies of the world, a collection which is rapidly gaining a leading position in America. This section of the library is maintained primarily by exchange and much has been accomplished during the

last five years in perfecting the incomplete files; this success is due in equal measure to the diligence of the Assistant Librarian and to the favor with which most of the foreign institutions receive our requests. The needs in this branch of the library are confined in the most part to the volumes of the early years, dating in many instances to the eighteenth century, which can be obtained only by purchase.

The most pressing need undoubtedly is the addition of numerous standard works in natural history, which are important to both the student and the general reader. There is no department in the Museum that is not handicapped by the lack of these works, most of which are out of print and can be purchased only as they happen to appear in the foreign markets. The appropriation of special funds for the purchase of these classics is urgently requested, since each year makes them more scarce with the consequent rise in value; for this reason such accessions must be considered one of the very best assets of the Museum.

The shelf-room of the library has been overcrowded for many months, and it is a delight to report that more space, continuous with the present stack-room, has been planned for immediate use. Another welcome addition is the proposed Faculty Room, where all the new natural history literature can be placed for the use of the various Curators. To equip a reading room with all the popular and non-technical books relating to natural history, open at all times to the visitor, is a project which the Curator has contemplated for several years. The expense of such an undertaking would not be burdensome, but the equipment should be placed on one of the exhibition floors where it would be readily accessible. It is believed that such a room would be much used and of important educational value.

During the year important gifts have been made to the library, the most noteworthy of which were contributed by Professor J. J. Stevenson, Professor Henry Fairfield Osborn, Mr. William G. DeWitt, Mrs. C. L. Weeks, and particularly Mr. Cleveland H. Dodge, who has supplied all of the publications of the Carnegie Institution pertinent to our subject. For these and all other gifts the library is greatly indebted.

## PUBLICATIONS

J. A. ALLEN, Editor

The current publications of The American Museum of Natural History consist of the *Annual Report*, the *Bulletin*, the *Memoirs*, the *Anthropological Papers* and the *American Museum Journal*.

The *Bulletin* is a strictly scientific publication in which are published the shorter articles embodying the results of the research work of the various departments of the Museum. The papers composing it are less voluminous and of more general interest than those which appear in the *Memoirs*. The *Bulletin* was founded in 1881, and twenty-eight volumes have been issued.

The *Memoirs*, like the *Bulletin*, are strictly scientific, but are devoted to special articles requiring more exhaustive treatment. They have been published at irregular intervals since 1893. Ten complete volumes and parts of four others have been issued.

The *Anthropological Papers* are similar in character to the *Bulletin*, but are devoted exclusively to the results of field work and other research conducted by the anthropological staff of the Museum. The publication of these papers was commenced in 1907, six volumes having been issued up to the present time.

The *American Museum Journal* is a popular record of the progress of the Museum, and was first published in 1900. It is now in its eleventh volume.

Complete sets of the *Bulletin* and of the *Memoirs*, bound or unbound, may be procured by addressing the Librarian. A standard cloth binding has been adopted for those desiring the publications in this form. No complete set of the *Journals* can be furnished.

The publications of the present year include Volumes XXVII and XXVIII of the *Bulletin*, Volumes IV, V and VI of the *Anthropological Papers*, Volume X of the *Journal*, and Part 1 of Volume XII and Part 1 of Volume XIII of the

*Memoirs.* The total amount expended on publications for the year was \$13,769.06.

The publications by departments are as follows:

DEPARTMENT OF INVERTEBRATE ZOOLOGY

- James A. G. Rehn. "On some Orthoptera from Porto Rico, Culebra and Vieques Islands." *Bull.* XXVIII, pp. 73-77, 1 text fig.
- Charles T. Brues. "Some Parasitic Hymenoptera from Vera Cruz, Mexico," *Bull.* XXVIII, pp. 79-85, 1 text fig.
- William Beutenmüller. "The North American Species of *Neuroterus* and their Galls." *Bull.* XXVIII, pp. 117-136, pls. viii-xiii.
- William Beutenmüller. "The North American Species of *Aylex* and their Galls." *Bull.* XXVIII, pp. 137-144, pl. xiv.
- William Beutenmüller. "The North American Species of *Aulacidea* and their Galls." *Bull.* XXVIII, pp. 253-258, pls. xxiv-xxvi.
- William Morton Wheeler. "Three new Genera of Myrmicine Ants from Tropical America." *Bull.* XXVIII, pp. 259-265, 3 text figs.
- T. D. A. Cockerell. "Fossil Insects and a Crustacean from Florissant, Colorado." *Bull.* XXVIII, pp. 275-288, 4 text figs.

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

- J. A. Allen. "The Black Bear of Labrador." *Bull.* XXVIII, pp. 1-6.
- J. A. Allen. "Mammals from the Athabaska-Mackenzie Region of Canada." *Bull.* XXVIII, pp. 7-11.
- J. A. Allen. "Mammals from Palawan Island, Philippine Islands." *Bull.* XXVIII, pp. 13-17.
- J. A. Allen. "Additional Mammals from Nicaragua." *Bull.* XXVIII, pp. 87-115.
- J. A. Allen. "Mammals from the Caura District of Venezuela, with Description of a new Species of *Chrolopterus*." *Bull.* XXVIII, pp. 145-149.
- J. A. Allen. "Collation of Brisson's Genera of Birds with those of Linnæus." *Bull.* XXVIII, pp. 317-335.
- D. G. Elliot. "On the Genus *Presbytis*, and 'Le Tarsier' Buffon, with Descriptions of two new species of *Tarsius*." *Bull.* XXVIII, pp. 151-154.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

- William K. Gregory. "The Orders of Mammals." *Bull.* XXVII, pp. 1-525, 32 text figs.
- Frederick W. True. "Description of a Skull and some Vertebræ of the Fossil Cetacean *Diochotichus vanbenedeni* from Santa Cruz, Patagonia." *Bull.* XXVIII, pp. 19-32, pls. i-v.

- W. D. Matthew. "On a Skull of *Apternodus* and the Skeleton of a new Artiodactyl." *Bull.* XXVIII, pp. 33-42, pl. vi, 5 text figs.
- W. D. Matthew. "On the Osteology and Relationships of *Paramys*, and the Affinities of the Ischyromyidae." *Bull.* XXVIII, pp. 43-72, 19 text figs.
- W. D. Matthew. "The Phylogeny of the Felidae." *Bull.* XXVIII, pp. 289-316, 15 text figs.
- John Treadwell Nichols. "A Note on *Siphostoma pelagicum* (Osbeck)." *Bull.* XXVIII, pp. 155-157, 1 text fig.
- John Treadwell Nichols. "A Note on the Identity of *Caranx forsteri* Cuvier and Valenciennes." *Bull.* XXVIII, p. 159.
- John Treadwell Nichols. "On two new Blennys from Florida." *Bull.* XXVIII, p. 161.
- E. C. Case. "New or little known Reptiles and Amphibians from the Permian(?) of Texas." *Bull.* XXVIII, pp. 163-181, 10 text figs.
- E. C. Case. "The Skeleton of *Pacilospondylus francisi*, a new Genus and Species of Pelycosauria." *Bull.* XXVIII, pp. 183-188, 3 text figs.
- E. C. Case. "Description of a Skeleton of *Dimetrodon incisivus* Cope." *Bull.* XXVIII, 189-196, pls. xv-xix, 5 text figs.
- R. Broom. "A Comparison of the Permian Reptiles of North America with those of South Africa." *Bull.* XXVIII, pp. 197-234, 20 text figs.
- Walter Granger. "Tertiary Faunal Horizons in the Wind River Basin, Wyoming, with Descriptions of new Eocene Mammals." *Bull.* XXVIII, pp. 235-254, pls. xx-xxiii, 6 text figs.
- Barnum Brown. "The Cretaceous Ojo Alamo Beds of New Mexico, with Description of the new Dinosaur Genus *Kritosaurus*." *Bull.* XXVIII, pp. 267-274, pls. xxvii-xxix, 7 text figs.
- Russell J. Coles. "Observations on the Habits and Distribution of certain Fishes taken on the Coast of South Carolina." *Bull.* XXVIII, pp. 337-348.

DEPARTMENT OF ANTHROPOLOGY<sup>1</sup>

- Robert H. Lowie. "The Assiniboine." *Anthrop. Papers*, IV, pp. 1-270, pls. i-iii, 17 text figs.
- Robert H. Lowie (editor). "Notes concerning new Collections." *Anthrop. Papers*, IV, pp. 271-337, pls. iv-viii, 42 text figs. Contributors: Robert H. Lowie, Alanson Skinner, C. W. Mead, Harlan I. Smith, T. T. Waterman, William C. Orchard.
- Clark Wissler. "Material Culture of the Blackfoot Indians." *Anthrop. Papers*, V, pp. 1-175, pls. i-viii, 103 text figs.
- Alaš Hrdlička. "Contributions to the Anthropology of Central and Smith Sound Eskimo." *Anthrop. Papers*, V, pp. 177-242, pls. ix-xxii, 2 text figs.
- Harlan I. Smith. "Archæology of the Yakima Valley." *Anthrop. Papers*, VI, pp. 1-171, pls. i-xvi, 129 text figs.

<sup>1</sup>The *Anthropological Papers* are edited by the Curator of the Department of Anthropology, Dr. Clark Wissler.

Harlan I. Smith. "The Prehistoric Ethnology of a Kentucky Site."  
*Anthrop. Papers*, VI, pp. 173-235, pls. xvii-lxiv, 1 text fig.

Waldemar Bogoras. "Chukchee Mythology." *Mem.* XII, pp. 1-197.

Waldemar Jochelson. "The Yukaghir and the Yukaghirized Tungus."  
*Mem.* XIII, pp. 1-133, pls. i-vii, 1 map.

## II. MEMBERSHIP

GEORGE H. SHERWOOD, Assistant Secretary

The steadily increasing number of Members of the Museum is an index of the spreading interest in the development of the institution, and the contribution of Members is an important item of income.

Members enjoy many privileges which cannot be readily granted to non-subscribers. Among these are the series of special lectures, admission to the laboratories and work-rooms, where may be seen the methods used in mounting material for exhibition, and the service of an instructor when Members and their friends visit the Museum. Recently a room for the use and comfort of Members has been set aside and will be equipped and furnished during the coming year.

We believe, however, that those who, as Members, subscribe to the Museum are actuated not by the returns which they receive from their subscription, but by their civic pride in an institution which they consider is doing an important educational work and is worthy of support.

Continuous efforts are being made to increase the membership and any assistance from Members by the nomination of their friends will be greatly appreciated.

Full information regarding membership will be furnished by the Secretary, on request.

The new Members number 235, and as the loss through death and resignation is 142, the net gain is 93.

On December 31, 1910, the total membership was 2,456, divided into classes as follows: Patrons, 108; Fellows, 40; Honorary Fellows, 2; Life Members, 469; Sustaining Members, 29; Annual Members, 1,808.

## NEW MEMBERS

The following persons were elected Patrons:

HENRY C. FRICK	MRS. RUSSELL SAGE
PRINCESS VILMA LWOFF-PARLAGHY	MRS. JOHN B. TREVOR
OGDEN MILLS	FELIX M. WARBURG
GEORGE W. WICKERSHAM.	

The following persons were elected Life Members:

F. LOTHROP AMES	WILLIAM ADAMS KISSAM
LARZ ANDERSON	EDWARD DE P. LIVINGSTON
ALLISON V. ARMOUR	FREDERIC A. LUCAS
BENJAMIN WALWORTH ARNOLD	GEORGE GRANT MASON
GEO. F. BAKER, JR.	JOHN G. MCCULLOUGH
LYNFORD BIDDLE	MOSES CHARLES MIGEL
W. LYMAN BIDDLE	ALFRED H. MULLIKEN
MISS ELIZABETH BILLINGS	NATHANIEL CUSHING NASH
J. INSLEY BLAIR	DE LANCEY NICOLL
DICKSON Q. BROWN	T. B. PARKER
RICHARD M. COLGATE	MRS. ANNE W. PENFIELD
C. FORSTER COOPER	CAPT. JOHN J. PHELPS
MARCELLUS HARTLEY DODGE	GEORGE B. POST, JR.
A. RADCLYFFE DUGMORE	HENRY H. ROGERS
ARTHUR D. GABAY	SCHUYLER SCHIEFFELIN
CHAS. W. HARKNESS	R. A. C. SMITH
GEORGE T. HOWLAND, M.D.	COL. ROBERT M. THOMPSON
JOHN SHERMAN HOYT	H. M. TILFORD
THEODORE R. HOYT	WILLIAM PERKINS WADSWORTH
GEN. THOMAS H. HUBBARD	HENRY WALTERS
RICHARD S. HUNGERFORD	MRS. FELIX M. WARBURG
FREDERIC H. KENNARD	PAUL M. WARBURG
D. P. KINGSLEY	MRS. PAUL M. WARBURG
STANTON D. KIRKHAM	MRS. WILLIAM SEWARD WEBB
ALFRED RUTGERS WHITNEY, JR.	

The following persons have become Sustaining Members:

FRITZ ACHELIS	JAMES MARWICK
MRS. BENJAMIN BREWSTER	JOHN G. MILBURN
R. R. COLGATE	MRS. C. M. PRATT
CHARLES DE RHAM	D. SCHNAKENBERG
J. B. GREENHUT	FREDERIC S. WELLS
ALFRED E. MARLING	RALPH WURTS-DUNDAS

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DECEASED MEMBERS AND CURATORS

It is with a profound sense of our loss that we announce  
the death of the following Members and  
Curators during the year 1910:

*Patrons*

RICHARD T. WILSON

*Fellows*

H. MCK. TWOMBLY

*Life Members*

JOHN E. ALEXANDRE

SETH BARTON FRENCH

*Curators*

ROBERT PARR WHITFIELD

The following is the Minute which was adopted at the  
meeting of the Executive Committee of the Board of Trustees  
on April 27, 1910:

RESOLVED, That the Trustees record with deep sorrow the  
death of

ROBERT PARR WHITFIELD,

Curator Emeritus of the Department of Geology and Invertebrate Palæontology, who died on April 6, 1910. Professor Whitfield was appointed Curator of Geology in 1877 and for more than thirty-two years rendered to the Museum faithful and efficient service. He was a recognized authority in his chosen field of science, and for nearly half a century had no superior in this country in the identification of fragmentary invertebrate fossils.

He was singularly devoted to the interests of the Museum and with untiring energy labored to build up the collections under his care. He was a strong advocate of a medium of publication and it was largely through his influence that President Jesup established the Museum *Bulletin* in 1881, to which Professor Whitfield was a frequent contributor.

The Trustees extend to Professor Whitfield's family their deepest sympathy and desire to record their esteem for one who has been so intimately associated with the development of this institution.

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**III.—FINANCES, MAINTENANCE, ENDOWMENT**

As has been the custom for several years, the financial transactions of the Museum have been carried in three separate accounts, namely, the City Maintenance Account, the General Account and the Special Funds Account. The details of the receipts and disbursements thus classified will be found in the Treasurer's Report, pages 65 to 75, inclusive. All books and vouchers of these accounts have been duly examined and certified by the Audit Company of New York.

The Treasurer's report is different in form from previous reports in that the net expenditures for the several departments are shown in each account. Formerly the gross expenditures only were given. Under the heading "reimbursements," on the disbursement side of the accounts, will be found the amounts which must be added to the net expenditures of any department to make the gross expenditures of that department.

The following summary will show the general receipts and disbursements for the past ten years:

SUMMARY OF ANNUAL EXPENDITURES FOR ALL PURPOSES, EXCLUSIVE OF SPECIAL FUNDS, 1901-1910		SUMMARY OF TOTAL EXPENDITURES IN TEN YEARS, 1901-1910	
1901.....	\$203,811.27	Total appropriation by City for Main- tenance (10 years)	\$1,625,687.62
1902.....	219,787.14	Total appropriation by Trustees for Maintenance, Col- lections, etc. (10 years) .....	1,300,813.05
1903.....	228,508.78	Estimated value of Collections dona- ted during past 10 years .....	2,000,000.00
1904.....	235,041.33		
1905.....	233,885.23		
1906.....	239,597.39		
1907.....	250,779.96		
1908.....	275,419.07		
1909.....	323,369.89		
1910.....	314,879.69		
	<u>\$2,525,079.75</u>		

**CITY MAINTENANCE ACCOUNT.**—The appropriation by the City in 1910 for this purpose was \$185,757. This sum, however, as in previous years, has been quite inadequate to meet the cost of maintaining the Museum, and the Trustees have drawn on their other funds to the extent of \$43,502.38 to meet expenses which are properly chargeable to the City funds. Such disbursements, however, have been made directly from the

General Account. The City Maintenance Account, therefore, while it shows all of the moneys received from the City, does not show the entire cost of maintenance.

The moneys appropriated by the City for maintenance of the Museum are received and disbursed independently of all other income. Thus the Trustees are in a position to give a strict account of the funds received from the City at any time that it may be desired, and an examination of this account by the City officials is always welcomed. It is obvious that as the successive additions are made to the building and as the older portions of the building deteriorate, larger sums will be required for maintenance.

**TRUSTEES GENERAL ACCOUNT.**—The growth of the Museum is dependent on the receipts in the General and Special Funds Accounts. The net receipts in the General Account for the year have been \$157,547.78, a sum \$3,529.27 larger than last year's receipts. The principal items of income have been as follows:

Interest on General Endowment Fund.....	\$57,192.50
Interest on Morris K. Jesup Fund.....	52,072.11
Life Members.....	4,700.00
Annual and Sustaining Members.....	18,515.00
Special Contributions of Trustees and others. ....	4,100.00
Supplementary income from Special Funds.....	9,000.00
Refund in settlement of gas bills.....	1,269.95

In 1909 the Consolidated Gas Company agreed to accept payment on Museum bills at 75 cents per 1,000 rate, and accordingly a check for \$1,269.95 was drawn and delivered to the Gas Company. The City finally issued special revenue bonds and settled all gas bills, including those of the Museum. The Gas Company thereupon returned the Museum's check for \$1,269.95, which was deposited to the credit of the General Account.

#### **MORRIS K. JESUP FUND**

The expenditures of the income from the Morris K. Jesup Fund have been made with due regard to Mr. Jesup's wishes, as given in the terms of his bequest. This money has been specifically applied as follows:

To the purchase of specimens and collections for practically all the departments of the Museum

To the support of field parties :

To Japan for whales

To South America for mammals and birds

To Montana, Wyoming and South Africa for fossils

To Wisconsin, Montana, Florida and the Arctic for work among the Menomini, Crow, Blackfoot, Seminole, Hidatsa and Eskimo

To Woods Hole, Mass., for marine habitat groups, and the vicinity of New York for local insect collections

To mural paintings for the Northwest Coast Hall

To books for the library

To scientific publications of the Museum

TRUSTEES SPECIAL FUNDS ACCOUNT.—The total net contributions to this account during the year have been \$71,407.32, the largest sum in recent years. It frequently occurs that valuable collections, which it is very desirable that the Museum should acquire, are offered for sale when it is impossible to purchase them from the regular income; or, there may be some special exploration which should be undertaken immediately. It is then that some patron or group of patrons is sought who will contribute funds for this special purpose and the responses have been most generous. Very important is the part that this supplementary income has played in the development of the Museum. Without such support the Habitat Bird Groups would not have been possible, the Congo Expedition would have been postponed indefinitely, and numerous invaluable collections would have been lost to the Museum.

TRUSTEES PERMANENT ENDOWMENT ACCOUNT.—The total endowment at the close of 1910 was \$2,340,365.49. The Permanent Endowment has been increased by three substantial contributions. Mrs. John B. Trevor has contributed \$5,000. From the estate of Darius Ogden Mills \$100,000 has been received. From the estate of Phebe Anna Thorne the Museum has received \$25,000, to be known as the Jonathan Thorne Memorial Fund, the income from which is to be applied to the development of a Room for the Blind.

Respectfully submitted,

HENRY FAIRFIELD OSBORN

February 13, 1911

*President*

# FINANCIAL STATEMENT

## 1910

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### *PERMANENT ENDOWMENT\**

Morris K. Jesup Fund .....	\$1,146,600 00	
General Endowment Fund.....	1,114,750 00	
John B. Trevor Fund. ....	25,000 00	
Josiah M. Fiske Fund.....	10,000 00	
Matilda W. Bruce Fund.....	11,000 00	
Solomon Loeb Fund.....	5,000 00	
Jonathan Thorne Memorial Fund.....	26,000 00	
	<hr/>	\$2,338,350 00
Uninvested Cash :		
Morris K. Jesup Fund.....		241 19
General Endowment Fund.....		954 30
Jonathan Thorne Memorial Fund.....		820 00
		<hr/>
		<u>\$2,340,365 49</u>

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\* The income of the Permanent Endowment is the chief source of income of the General Account.

THE AMERICAN MUSEUM OF NATURAL HISTORY

CITY MAINTENANCE ACCOUNT

RECEIPTS

1910

Capital Fund, cash on hand January 1, 1910.....	\$12,950 88	
Department of Parks :		
Account of 1909 :		
Telephone, Rental of.....	\$247 31	
General Supplies.....	923 26	
Fuel.....	847 97	
Contingencies.....	30 58	
		2,049 12
		\$15,000 00
Department of Parks :		
Appropriation for 1910 :		
Salaries and Wages .....		156,500 00
Telephone, Rental of .....	486 48	
Bills awaiting reimbursement	93 52	
		580 00
General Supplies.....	9,931 85	
Bills awaiting reimbursement	237 15	
		10,169 00
Materials for Repairs and Re-		
placements by Departmental		
Labor.....	6,058 17	
Bills awaiting reimbursement	441 83	
		6,500 00
Repairs and Replacements by		
Contract or Open Order.....	534 00	
Bills awaiting reimbursement	216 00	
		750 00
Maintenance of Automobile, in-		
cluding equipment, care and		
storage of same.....	446 95	
Bills awaiting reimbursement	3 05	
		450 00
Purchase of Furniture and		
Fittings .....	621 97	
Bills awaiting reimbursement	228 03	
		850 00
Fuel.....	5,907 22	
Bills awaiting reimbursement	2,592 78	
		8,500 00
Contingencies.....		1,458 00
Total net receipts for the main-		185,757 00
tenance of all departments....		109 00
Interest on Credit Balances.....		4,500 00
Loans.....		
		\$205,366 00

Examined and Approved { ANSON W. HARD  
GUSTAV E. KISSEL } Auditing  
SETH LOW Committee

*CITY MAINTENANCE ACCOUNT\**

DISBURSEMENTS

1910

Geology and Invertebrate Palæontology.....	\$3,844 58
Mineralogy.....	2,847 80
Mammalogy and Ornithology.....	4,701 05
Vertebrate Palæontology.....	10,011 06
Anthropology.....	9,352 89
Invertebrate Zoölogy.....	8,853 69
Ichthyology and Herpetology.....	3,946 75
Physiology.....	1,236 55
Public Health.....	738 44
Woods and Forestry.....	573 64
Library.....	9,634 89
Public Education.....	4,345 52
Preparation and Exhibition.....	6,837 41
Heating and Lighting.....	22,899 23
Repairs and Installation.....	18,688 81
General Supplies and Expenses.....	9,182 09
Administration.....	68,062 60
Total net disbursements for the maintenance of all departments.....	\$185,757 00
Interest on Credit Balances transferred to General Account.....	109 00
Loans.....	4,500 00
Capital Fund:	
Cash on hand December 31, 1910.....	11,187 37
Bills awaiting reimbursement from Department of Parks, December 31, 1910.....	3,812 63
	<u>15,000 00</u>
	<u>\$205,366 00</u>

CHARLES LANIER, *Treasurer*

[E. & O. E.]

NEW YORK, *December 31, 1910*

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\*The annual appropriation of the City can be used only for the *maintenance* of the Museum and is inadequate for this purpose. It cannot be used for the purchase of specimens or for the expenses of exploring and collecting expeditions.

THE AMERICAN MUSEUM OF NATURAL HISTORY

GENERAL ACCOUNT

RECEIPTS

1910

Temporary Working Fund Capital.....		\$900 00
Cash on hand January 1, 1910.....	\$5,648 62	
Interest on General Endowment Fund.....	57,192 50	
Interest on Morris K. Jesup Fund.....	50,711 00	
Interest on Morris K. Jesup Fund:		
Accrued Interest on Bonds at time of sale trans-		
ferred from Investment Fund of Special		
Funds Account.....	1,361 11	
Interest on Credit Balances.....	1,162 35	
Life Members.....	4,700 00	
Annual Members.....	17,840 00	
Sustaining Members.....	675 00	
Sale of Publications.....	542 30	
Sales and Exchanges.....	3,344 95	
Special Contributions:		
Percy R. Pyne.....	2,000 00	
Ogden Mills.....	2,000 00	
Jacob Langeloth.....	100 00	
Special Funds for General Receipts:		
Vertebrate Palæontology Field Funds.....	2,000 00	
Antarctic Exploration Fund.....	5,000 00	
Reserve Fund.....	2,000 00	
Refund to General Receipts, Adjustment of Gas Bills.....	1,269 95	
<b>Total net receipts for the development of all</b>		<b>157,547 78</b>
<b>departments.....</b>		
Reimbursements:		
Special Funds Transfers:		
Charles E. Slocum Fund.....	100 00	
Horse Exploration Fund.....	200 00	
Primitive Peoples of Southwest Fund.....	2,000 00	
Lenders Collection Costumes Plains		
Indians.....	15,000 00	
Indian Blanket Fund.....	576 44	
Jonathan Thorne Memorial Fund.....	456 44	
Antarctic Exploration Fund.....	500 00	
General Account:		
Unexpended Field Balances, General Items.....	2,028 39	
City Maintenance Account:		
For payment of bills temporarily charged		
to General Account pending transfers.....	2,061 76	
		22,923 03
Patrons:		
George W. Wickersham.....	1,000 00	
Henry C. Frick.....	1,000 00	
		2,000 00
Loans.....		8,500 00
		<u>\$191,870 81</u>

Examined and Approved { ANSON W. HARD  
GUSTAV E. KISSEL } Auditing  
SETH LOW Committee

## GENERAL ACCOUNT\*

### DISBURSEMENTS

1910

Geology and Invertebrate Palaeontology.....	\$4,440	50
Mineralogy .....	398	12
Mammalogy and Ornithology.....	11,528	04
Vertebrate Palaeontology.....	13,497	34
Professor Osborn's Research and Publication Fund.	4,774	09
Anthropology.....	23,322	19
Invertebrate Zoölogy.....	7,218	37
Ichthyology and Herpetology .....	1,819	69
Physiology.....	1,263	92
Public Health.....	665	12
Woods and Forestry.....	717	14
Library .....	6,527	89
Publications .....	12,460	51
Public Education.....	5,822	22
Preparation and Exhibition .....	11,432	20
Heating and Lighting.....	668	12
Repairs and Installation.....	3,368	66
General Supplies.....	10,801	76
Administration.....	7,731	58
Sales and Exchanges.....	88	00
Interest on Overdrafts .....	577	23
<b>Total net disbursements for the development of all departments.....</b>		<b>\$129,122 69</b>
Reimbursements which have been deducted from gross expenditures of the following departments :		
Geology.....	\$451	41
Mammalogy.....	218	46
Vertebrate Palaeontology. ....	216	80
Anthropology .....	17,843	70
Invertebrate Zoölogy.....	31	86
Ichthyology and Herpetology.....	4	40
Physiology.....	1	90
Library.....	22	50
Public Education.....	456	44
Preparation and Exhibition.....	509	49
Repairs and Installation.....	1,715	42
General Supplies and Expenses.....	1,450	65
		<b>22,923 03</b>
Patrons :		
Transferred to Investment Fund, Special Funds Account.....		2,000 00
Interest on General Endowment Fund :		
Accrued interest on Bonds at time of purchase transferred to Investment Fund of Special Funds Account.....		2,623 61
Interest on Morris K. Jesup Fund :		
Accrued interest on Bonds at time of purchase transferred to Investment Fund of Special Funds Account.....		12,447 37
Loans.....		8,500 00
Cash on hand December 31, 1910.....		13,354 11
Temporary Working Fund Capital.....		900 00
		<b>\$191,870 81</b>

[E. & O. E.]

CHARLES LANIER, *Treasurer*

NEW YORK, December 31, 1910

\* Disbursements of this account are made, as the Board of Trustees may direct, for the purchase of specimens, for the expenses of field parties and for the support of scientific work.



THE AMERICAN MUSEUM OF NATURAL HISTORY

*SPECIAL FUNDS ACCOUNT*

RECEIPTS

1910

GEOLOGY:

PEARY METEORITES:

Mrs. Morris K. Jesup .....	\$10,958 33	
CHARLES E. SLOCUM FUND.....	100 00	
		<u>\$11,058 33</u>

MINERALOGY:

MATILDA W. BRUCE FUND:

Interest.....		605 00
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MAMMALOGY AND ORNITHOLOGY:

NORTH AMERICAN ORNITHOLOGY FUND, SERIES I:

Balance.....		58 70
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NORTH AMERICAN ORNITHOLOGY FUND, SERIES 2:

Balance .....	\$1,828 94	
John L. Cadwalader.....	250 00	
Mrs. Morris K. Jesup.....	250 00	
Miss Caroline Morgan.....	250 00	
Henry Clay Pierce.....	500 00	
F. Aug. Scharmerhorn.....	500 00	
Mrs. Harriet L. Schuyler.....	250 00	
Mrs. John B. Trevor.....	250 00	
Mrs. Robert L. Winthrop.....	250 00	
Reserve Fund:		
Transfer subscription of Mrs. Louise W. Havemeyer.....	250 00	
		<u>4,578 94</u>

MRS. FRANK K. STURGIS FUND:

Balance.....		63 78
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CONGO EXPEDITION FUND:

Balance .....	699 52	
A. D. Juilliard .....	1,000 00	
Charles Lanier.....	1,000 00	
J. Pierpont Morgan, Jr.....	1,000 00	
William Rockefeller .....	2,000 00	
John B. Trevor.....	2,500 00	
W. K. Vanderbilt.....	1,000 00	
Reserve Fund:		
Transfer subscription of Cleveland H. Dodge.....	1,000 00	
		<u>10,199 52</u>

CRANDALL OÖOLOGICAL FUND:

Balance .....	885 00	
Alfred N. Beadleston.....	25 00	
George J. Gould.....	50 00	
John S. Huyler.....	25 00	
William Church Osborn.....	50 00	
W. H. Wolverton.....	25 00	
Mrs. Anna Woerishoffer.....	100 00	
		<u>1,160 00</u>
		<u>16,060 94</u>

*Carried forward* ..... \$27,724 27

*SPECIAL FUNDS ACCOUNT\**

DISBURSEMENTS

1910

GEOLOGY:

PEARY METEORITES:

Purchase of Peary Meteorites, 2d payment.. \$10,583 33

CHARLES E. SLOCUM FUND:

Transferred to Geology, General Account,  
for expenses of Glacial Grooves Exhibit. 100 00 \$10,683 33

MINERALOGY:

MATILDA W. BRUCE FUND:

Purchase of Mineral Specimens..... 605 00

MAMMALOGY AND ORNITHOLOGY:

NORTH AMERICAN ORNITHOLOGY FUND,  
SERIES 2:

For expenses of field work and for prepara-  
tion of groups..... 1,726 58

MRS. FRANK K. STURGIS FUND:

Purchase and mounting of Birds of Paradise. 60 52

CONGO EXPEDITION FUND:

For expenses of field work, Africa, salaries  
of Messrs. Lang and Chapin, and  
equipment of expedition..... 8,827 27

10,614 37  
*Carried forward*..... \$21,902 70

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\*In this account are carried all moneys given to the Museum for specific purposes and not intended for the endowment.

THE AMERICAN MUSEUM OF NATURAL HISTORY

SPECIAL FUNDS ACCOUNT

RECEIPTS

1910

Brought forward..... \$27,724 27

VERTEBRATE PALÆONTOLOGY :

HORSE EXPLORATION FUND :

Frank K. Sturgis..... \$200 00

TERTIARY FAUNAL LIFE SCENES FUND :

Balance..... 600 00- 800 00

ANTHROPOLOGY :

EAST ASIATIC FUND :

Balance..... 3,141 75

BERLIN NORTH AMERICAN FUND :

Balance..... 78 50

BOARD OF MISSIONS FUND :

Balance..... 830 00

PRIMITIVE PEOPLES OF SOUTHWEST FUND :

Archer M. Huntington..... \$5,000 00

Antarctic Exploration Fund,

Transfer from above Fund..... 4,500 00 9,500 00

INDIAN BLANKET FUND :

Anson W. Hard..... 2,000 00

TEFFT COLLECTION FUND :

James Douglas..... 500 00

Felix M. Warburg..... 2,500 00 3,000 00

LENDERS COLLECTION COSTUMES PLAINS

INDIANS :

J. Pierpont Morgan..... 15,000 00 33,550 25

INVERTEBRATE ZOÖLOGY :

ASHOKAN WATERSHED BIOLOGICAL SURVEY

FUND :

Balance..... 136 50

ICHTHYOLOGY AND HERPETOLOGY :

FOSSIL FISH EXPLORATION FUND :

Balance..... 2,168 25

Cleveland H. Dodge..... 1,000 00

Reserve Fund :

Transfer subscription of Cleveland H. Dodge..... 1,000 00 4,168 25

PUBLIC EDUCATION :

CHILDREN'S ROOM FUND :

Balance..... 172 97

A Friend..... 6 00 178 97

TEACHERS' DAY FUND :

Cleveland H. Dodge..... 100 00

Adrian Iselin, Jr..... 200 00

Seth Low..... 50 00

J. P. Morgan..... 250 00

Henry F. Osborn..... 100 00

J. Hampden Robb..... 25 00 725 00

Carried forward..... \$66,379 27

## SPECIAL FUNDS ACCOUNT

### DISBURSEMENTS

1910

*Brought forward*..... \$21,902 70

#### VERTEBRATE PALÆONTOLOGY:

Transferred to Vertebrate Palæontology General  
Account for general work of Department..... \$200 00

#### TERTIARY FAUNAL LIFE SCENES FUND:

Mural Decorations, Department of Vertebrate  
Palæontology..... 600 00  
800 00

#### ANTHROPOLOGY:

##### EAST ASIATIC FUND:

Publication Han Pottery Memoir..... 798 26

##### BERLIN NORTH AMERICAN FUND:

Purchase of specimens..... 78 50

##### BOARD OF MISSIONS FUND:

Purchase of specimens..... 375 00

##### PRIMITIVE PEOPLES OF SOUTHWEST FUND:

For expense of field work..... \$7,055 46  
Transferred to Anthropology General Account for  
purchase of Hopi Collection..... 2,000 00  
9,055 46

##### INDIAN BLANKET FUND:

Purchase of Blankets..... 1,423 56  
Transferred to Anthropology General Account for  
purchase of Blankets..... 576 44  
2,000 00

##### TEFFT COLLECTION FUND:

Purchase of Collection, 1st payment..... 3,000 00

##### LENDERS COLLECTION COSTUMES PLAINS

##### INDIANS:

Transferred to Anthropology General Account for  
purchase of Collection..... 15,000 00  
30,307 22

#### ICHTHYOLOGY AND HERPETOLOGY:

##### FOSSIL FISH EXPLORATION FUND:

For expenses of field work and purchase of  
specimens..... 2,156 49

#### PUBLIC EDUCATION:

##### CHILDREN'S ROOM FUND:

Purchase of supplies..... 8 66

##### TEACHERS' DAY FUND:

Expenses in connection with Teachers' Day,  
November, 1910..... 695 00

*Carried forward*..... \$55,166 41

THE AMERICAN MUSEUM OF NATURAL HISTORY

SPECIAL FUNDS ACCOUNT

RECEIPTS

1910

*Brought forward*..... \$66,379 27

PUBLIC EDUCATION—*Continued*

JONATHAN THORNE MEMORIAL FUND:

Interest..... \$520 00 1,423 97

PUBLICATIONS:

JESUP NORTH PACIFIC EXPEDITION

PUBLICATIONS:

Balance..... 604 08  
Mrs. Morris K. Jesup..... 3,000 00  
3,604 08

Total net receipts for the development of specific departments..... 71,407 32

RESERVE FUND:

Balance, subscription of Mrs. Louisine W. Havemeyer..... 250 00  
Cleveland H. Dodge..... 4,000 00  
4,250 00

ANTARCTIC EXPLORATION FUND:

Archer M. Huntington..... 5,000 00  
Arthur Curtiss James..... 5,000 00  
10,000 00

VERTEBRATE PALÆONTOLOGY FIELD FUNDS:

Henry Fairfield Osborn..... 2,000 00

PENSION FUND:

Archer M. Huntington..... 1,000 00

INVESTMENT FUND:

Balance..... 1,295 92  
Mrs. John B. Trevor..... 5,000 00  
Estate of Darius Ogden Mills..... 100,000 00  
Estate of Phebe Anna Thorne..... \$10,000 00  
Residuary Estate of Phebe Anna Thorne..... 15,000 00  
25,000 00  
Sale of Bonds..... 11,000 00  
Redemption of Bonds..... 21,050 00  
Cash on transfer of Bonds..... 131 31

GENERAL ACCOUNT:

Transfers, Patronships..... 2,000 00  
Reimbursement from interest on General Endowment Fund of accrued interest on bonds at time of purchase..... 2,623 61  
Reimbursement from interest on Morris K. Jesup Fund of accrued interest on bonds at time of purchase..... 12,447 37  
Reimbursement from interest on Jonathan Thorne Memorial Fund of accrued interest on bonds at time of purchase..... 63 56  
17,134 54 180,611 77

REIMBURSEMENTS:

Primitive Peoples of Southwest Fund..... 35 34  
Fossil Fish Exploration Fund..... 31 47  
Jonathan Thorne Memorial Fund..... 456 44

INTEREST ON CREDIT BALANCES:

523 25

1,053 35

\$270,845 69

Examined  
and Approved

{ ANSON W. HARD  
GUSTAV E. KISSEL  
SETH LOW }

Auditing  
Committee

## SPECIAL FUNDS ACCOUNT

### DISBURSEMENTS

1910

*Brought forward*..... \$55,166 41

#### PUBLIC EDUCATION—*Continued*

##### JONATHAN THORNE MEMORIAL FUND:

Transferred to General Supplies and Expenses amount  
advanced for accrued interest on purchase of bonds..... \$63 56      767 22

#### PUBLICATIONS:

##### JESUP NORTH PACIFIC EXPEDITION PUBLICATIONS:

Publications of Expedition..... 1,308 55

**Total net disbursements for the development of specific  
departments..... 57,242 18**

#### RESERVE FUND:

##### TRANSFERRED TO:

North American Ornithology Fund, Series 2.....	250 00	
Congo Expedition Fund.....	1,000 00	
Fossil Fish Exploration Fund.....	1,000 00	
General Receipts, General Account.....	2,000 00	4,250 00

#### ANTARCTIC EXPLORATION FUND:

##### TRANSFERRED TO:

Primitive Peoples of Southwest Fund.....	4,500 00	
Preparation and Exhibition, General Account, for prepara- tion of polar maps.....	500 00	
General Receipts, General Account.....	5,000 00	10,000 00

#### VERTEBRATE PALÆONTOLOGY FIELD FUNDS:

##### TRANSFERRED TO GENERAL RECEIPTS, GENERAL ACCOUNT.....

2,000 00

#### INVESTMENT FUND:

PURCHASE OF BONDS..... 177,235 17

##### ACCRUED INTEREST ON BONDS AT TIME OF SALE

##### TRANSFERRED TO INTEREST ON MORRIS K.

JESUP FUND, GENERAL ACCOUNT..... 1,361 11      178,596 28

#### REIMBURSEMENTS:

##### REIMBURSEMENTS WHICH HAVE BEEN DEDUCTED FROM GROSS EXPENDITURES OF THE FOLLOW- ING SPECIAL FUNDS:

Primitive Peoples of Southwest Fund.....	35 34	
Fossil Fish Exploration Fund.....	31 47	
Jonathan Thorne Memorial Fund.....	450 44	523 25

#### INTEREST ON CREDIT BALANCES:

EARNINGS TO DECEMBER 31, 1910, TRANSFERRED  
TO GENERAL ACCOUNT..... 1,053 35

**CASH ON HAND DECEMBER 31, 1910..... 17,180 63**  
**\$270,845 69**

CHARLES LANIER, *Treasurer*

[E. & O. E.]

NEW YORK, December 31, 1910

# LIST OF ACCESSIONS, 1910

## DEPARTMENT OF PUBLIC EDUCATION

### BY GIFT

H. CHAUNCEY, New York City.

15 Photographs of Swiss Glaciers.

KENNEDY CONKLIN, New York City.

1 Snowy Owl.

JOHN D. CRIMMINS, New York City.

Autograph invitation to President U. S. Grant, to participate in the laying of the Corner-stone of the Museum.

A FRIEND.

Flowering plants, books and games.

G. V. HOLLINS, New York City.

1 Crane.

PHILADELPHIA COMMERCIAL MUSEUMS, Philadelphia, Pa.

Cabinet of Industrial Exhibits.

H. I. PRATT, Brooklyn, N. Y.

1 Large Palm.

CAPT. E. RASON, Reigate, England.

11 Photographs from New Hebrides Islands.

EDWARD ROESLER, JR., New York City.

3 Live Guinea Pigs.

### BY EXCHANGE

SIR HARRY H. JOHNSTON, Poling, Sussex, England.

28 Photographs of African material.

### BY PURCHASE

FIELD MUSEUM OF NATURAL HISTORY, Chicago, Ill.

25 Negatives illustrating Weaving.

### BY LOAN

A. RADCLYFFE DUGMORE, New York City.

60 Negatives of British East Africa.

KERMIT ROOSEVELT, Oyster Bay, L. I.

1200 Negatives of African material, with the privilege of making prints.

DR. LOUIS LIVINGSTON SEAMAN, New York City.

81 Negatives and 50 photographs of the Zambesi country.

MISS VERA SIMONTON, Pittsburgh, Pa.

33 Photographs of African material, with the privilege of making negatives.

### THROUGH MUSEUM EXPEDITION

279 Negatives obtained during two trips to the southwestern United States by Dr. Pliny E. Goddard.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE  
PALÆONTOLOGY

GEOLOGY

BY GIFT

CALUMET AND HECLA MINES CO., Calumet, Mich. (through Mr.  
C. H. Benedict).

12 Samples of mill products from Lake Linden, Mich.

COPPER QUEEN CONSOLIDATED MINING CO., Bisbee, Ariz.

1 Stalagmite 3 ft. high x  $2\frac{1}{2}$  ft. in diameter.

17 Boxes of stalactites, stalagmites, crystals and other wall material  
from a cave in the Copper Queen Mine.

15 Specimens of typical ores and minerals from Bisbee.

15 Geological specimens from Mt. Martin, Bisbee.

92 Specimens illustrating the physical geology of the Copper Queen  
Mine.

5 Specimens of Native Copper and Cuprite from Bisbee.

DETROIT COPPER CO., Morenci, Ariz.

20 Specimens of ores and rocks from Morenci.

GREENE-CANANEA CONSOLIDATED COPPER CO., Cananea, Mexico.

23 Samples of mill work from Cananea.

JOHN HAYS HAMMOND, New York City.

8 Specimens from the Transvaal gold region, South Africa.

C. M. HARPER, New York City.

1 Specimen of Vanadinite from near Globe, Ariz.

MRS. E. H. HARRIMAN, New York City.

36 Specimens of onyx, marbles and limestones from localities in  
the West.

SAMUEL HELLER & SON, New York City.

A series of about 75 specimens and photographs illustrating the  
manufacture of synthetic sapphires and rubies.

MOCTEZUMA COPPER CO., Nacozari, Sonora, Mexico.

13 Specimens from the Pilares Mine.

CHARLES PALACHE, New Haven, Conn.

1 Fragment of a large crystal of Fayalite in Pegmatite in Granite  
from Rockport, Mass.

OTTO F. PFORDTE, Rutherford, N. J.

7 Specimens of Zincite, Franklinite, etc., from Franklin Furnace and  
Ogdensburg, N. J.

SIR ERNEST SHACKLETON, British Antarctic Expedition.

27 Specimens from Cape Royds, Mt. Erebus, Antarctica.

BY PURCHASE

6 Specimens of Quartz crystals and decomposed Granite carrying  
Native Gold from mines near Berezov, Russia.



- 1 Specimen of honeycomb Quartz carrying Gold from Berezov, Russia.
- 1 Specimen of Native Silver in Limestone from the McKinley-Darragh Mine, Cobalt, Ontario, Canada.
- 1 Slab showing Trap Dike in Granodiorite from St. Cloud, Minnesota.
- 1 Gold-Quartz nugget from placer in California.
- 1 Large slab of Quincy Pegmatite.
- 1 Slice and a cast of El Inca Meteorite from Peru.
- 1 Large piece of the Brenham Meteorite.
- 1 Entire mass of the Knowles Meteorite.
- 12 Geological specimens from Virgilina Copper District, Halifax Co., Va., and Granville Co., N. C.
- 8 Specimens of Rutile, etc., from Nelson Co., Va.
- 16 Specimens of Native Silver, ores and rock from Cobalt, Ontario.

## INVERTEBRATE PALÆONTOLOGY

### BY GIFT

BARNUM BROWN, New York City.

- 2 Fragments containing fossil Tereido shells from the Tax Hills formation on the Missouri River at Lismas, Mont.

WALTER GRANGER, New York City.

- 7 Specimens of *Macrocyclus spatiosa* Meek and Hayden from Wind River beds, Alkali Creek, Wyo.
- 11 Specimens of *Macrocyclus spatiosa* from the Washakie Basin.
- 2 Valves of *Margaritana rugosa* (?) from the Washakie Basin.
- 60 Unios from the Wasatch formation, Big Horn Basin, Wyo.
- 12 Cerithiums from the Wasatch formation, Big Horn Basin, Wyo.
- 4 *Macrocyclus spatiosa* from the Wasatch formation, Big Horn Basin.

### BY EXCHANGE

BURNETT SMITH, Skaneateles, N. Y.

- 28 Specimens from the Manlius Limestone of Onondaga Co., N. Y.

### BY PURCHASE

- 2 Rudistes shells from the Kansas Chalk, Trogo Co., Kan.

## DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

### MAMMALS

#### BY GIFT

C. E. AKELEY, Chicago, Ill.

- 6 Bats from British East Africa.

BRITISH MUSEUM (Natural History), South Kensington, London.

- 1 Skull of Weddell's Seal (*Leptonychotes weddelli*) from Ross Sea, Antarctic regions.

BARNUM BROWN, New York City.

2 Specimens of Shrew from Alberta.

N. G. BUXTON, Denver, Colo.

68 Small mammals from vicinity of Denver, Colo.

DEPARTMENT OF PARKS, New York City.

30 Monkeys, 4 Marmosets, 3 Leopards, 2 Lions, 1 Chinese Cat,  
1 Coati, 1 Coyote, 1 Polar Bear, 2 Wapiti Deer, 1 Eland,  
1 Moufflon, 1 Capybara, 1 Peccary, 3 Opossums.—Total, 52  
specimens received in the flesh from the Central Park Menagerie.

JAMES L. CLARK, New York City.

2 Bongo skulls and 1 Bat from Africa.

COLLEGE OF PHYSICIANS AND SURGEONS, New York City.

1 Asiatic Dog.

CAPT. GEORGE COMER, New Bedford, Mass.

1 Shrew from Hudson Bay.

CAPT. M. L. CRIMMINS, U. S. A., Fort Davis, Alaska.

2 Small mammals from Nome, Alaska.

DR. JONATHAN DWIGHT, JR., New York City.

17 Small mammals from western Turkestan.

GAUDIG AND BLUM, New York City.

1 "Mink-martin."

ERNEST INGERSOLL, New York City.

2 Ground Squirrels (*Citellus*, one of them melanistic) from Yukon,  
Canada.

MRS. WILLIAM C. DE MILLE, New York City.

1 Marmoset from Venezuela.

A. JOHNSTONE, Brooklyn, N. Y.

2 Small mammals from Staten Island, N. Y.

HON. MASON MITCHELL, U. S. Consul, Apia, Samoa.

1 Cat (*Felis temmincki mitchelli*) from Tibet.

JOHN T. NICHOLS, Englewood, N. J.

3 Field Mice from Oregon.

G. FREDERICK NORTON, New York City.

2 Skins of Glacier Bears from Alaska.

K. V. PAINTER, Cleveland, Ohio.

1 Skeleton of Giant Forest Pig (*Hylocharus*) from Africa.

DR. C. H. TOWNSEND, New York City.

1 Skin of albino Fur Seal.

FRANK WEINBERG, New York City.

1 Siamese Cat.

NEW YORK ZOÖLOGICAL SOCIETY.

1 Black Macaque, 1 Lioness, 1 Tiger, 1 Leopard, 2 Siamese Cats, 1  
Paradoxurus, 1 Civet Cat, 1 young Walrus, 1 young Musk-ox,  
3 Antelopes, 1 Rocky Mountain Goat, 1 Deer, 1 Wild Ass, 1  
Hyrax, 1 Rhinoceros.—Total, 18 specimens received in the flesh  
from the New York Zoölogical Park.

## BY PURCHASE

480 Small mammals from various parts of North America ; 2 specimens from Nicaragua, 6 from Siam, and 4 Solenodons from San Domingo.

## THROUGH MUSEUM EXPEDITIONS

20 Small mammals from Mexico ; 50 from the Dutch East Indies ; 4 skeletons of large Whales, 2 skeletons of small Whales, and 10 skeletons of Porpoises (4 species) from Japan ; 170 specimens from Venezuela.

## BIRDS

## BY GIFT

MRS. J. E. ALGER, Oyster Bay, L. I.

1 Mounted Mexican Jacana.

B. S. BOWDISH, Demarest, N. J.

6 Small birds, in the flesh.

COURTENAY BRANDRETH, Ossining, N. Y.

1 Mallard Duck, in the flesh.

BRITISH MUSEUM (Natural History), South Kensington, London.

11 Eggs from the Antarctic regions—1 of the King Penguin, 6 of the Black-throated Penguin, and 4 of MacCormick's Skua.

N. G. BUXTON, Denver, Colo.

1 Skin of Western Tree Sparrow, 1 skin of Red-winged Blackbird from Colorado.

FRANK M. CHAPMAN, Englewood, N. J.

1 Screech Owl, in the flesh.

RUSSELL J. COLES, Danville, Va.

1 Sanderling and 1 Snow Bunting, in the flesh, from North Carolina.

GEORGE CROCKER, New York City.

1 Red-shouldered Hawk, in the flesh.

P. M. CUSHING, Larchmont, N. Y.

Old Squaw Duck, in the flesh.

MRS. WILLIAM C. DE MILLE, New York City.

18 Skins of small birds from Merida, Venezuela.

DEPARTMENT OF PARKS, New York City.

2 Rheas, 19 Swans, 2 Egyptian Geese, 1 Herring Gull, 1 American Bittern, 1 Vulture, 4 Eagles, 1 Owl, 1 Peacock, 5 Pheasants, 5 Cockatoos, 2 Macaws, 6 Amazon Parrots, 1 Toucan, 1 Garrulax.  
—Total, 52 specimens received in the flesh from the Central Park Menagerie.

DR. JONATHAN DWIGHT, JR., New York City.

98 Miscellaneous bird skins, without data.

LIEUT. G. T. EMMONS, Princeton, N. J.

1 Nest of Baltimore Oriole.

- G. CLYDE FISHER, De Funiak Springs, Fla.  
6 Birds from Florida (2 skins, 4 in alcohol).
- L. A. FUERTES, Ithaca, N. Y.  
4 Skins, including the type of a new species of *Icterus* from Mexico,  
and 1 Hooded Merganser in the flesh.
- DWIGHT FRANKLIN, New York City.  
2 Skins of Bee-eaters from Morocco.
- CHAPMAN GRANT, New York City.  
1 Skin of Hermit Thrush.
- H. O. HAVEMEYER, JR., Mahwah, N. J.  
1 Four-legged Chicken.
- B. F. HOWELL, Troy Meadows, N. J.  
1 Mounted Yellow Rail.
- THEODORE R. HOYT, New York City.  
1 Mounted Duck, a hybrid between the Mallard and the Pintail.
- JAMES KEMP, New York City.  
1 Barred Owl, in the flesh.
- W. DE W. MILLER, Plainfield, N. J.  
3 Hawks and 1 Loon, in the flesh.
- HON. MASON MITCHELL, U. S. Consul, Apia, Samoa.  
18 Skins of Samoan birds.
- NEW YORK ZOÖLOGICAL SOCIETY, New York City.  
2 Cassowaries, 2 Screamers, 2 Upland Geese, 1 Pelican, 1 Adjutant  
Stork, 2 Ocellated Turkeys, 1 Bataleur Eagle, 1 Harpy Eagle,  
1 Hyacinthine Macaw.—Total, 13 specimens received in the  
flesh from the New York Zoölogical Park.
- DR. L. E. NORFLEET, Tarboro, N. C.  
1 Albino Grackle, in the flesh.
- G. FREDERICK NORTON, New York City.  
2 Skins of Black Oyster-catcher.
- PEARY ARCTIC CLUB, Brooklyn, N. Y.  
1 Nest of Knot, the first known to science.
- MISS PHILLIPS.  
1 Double Yellowhead Parrot (*Amazona oratrix*).
- MRS. D. F. PLATT, Englewood, N. J.  
1 Hermit Thrush, in the flesh.
- HARRY RAVEN, Bay Shore, N. Y.  
1 Night Heron, 1 Merganser, 1 Meadowlark, 1 Sanderling, 1 Plover.
- JENNESS RICHARDSON, Rutland, Vt.  
1 Skin of Fish Crow.
- DR. L. C. SANFORD, New Haven, Conn.  
5 Ducks from North Carolina and 1 Swan, in the flesh; 2 skins of  
Grouse from Alaska; 1 skin of Canvasback Duck.
- DR. THOMAS R. SAVAGE, New York City.  
1 Nest of Weaver-bird from Africa.
- E. LEROY THOMSON, Siasconset, Mass.  
1 Pomarine Jaeger, in the flesh.

DR. C. H. TOWNSEND, New York City.

14 Skins of rare and interesting birds from the Hawaiian Islands.

E. H. WHITE, New York City.

1 Lory, in the flesh.

#### BY EXCHANGE

2 Masked Bob-white from Mexico; 1 Gull-billed Tern and 1 Mayan Horned Owl from eastern Mexico; 57 small birds, mostly from Costa Rica; 14 birds from various localities; all skins. 1 Virginia Rail, in the flesh. 10 sets of eggs of North American birds.

#### BY PURCHASE

155 Skins from China; 46 skins from Siam; 87 skins from New York State; 65 skins, 29 nests and 66 eggs from Panama; 14 skins of large birds from the Arctic regions; 2 Kiwis from New Zealand (*Apteryx australis* and *A. haasti*); 1 egg of *Aepyornis* from Madagascar; 1 skin of *Nyctibius* from Nicaragua.

#### THROUGH MUSEUM EXPEDITIONS

342 skins and 2 sterna from Borneo, Celebes, Formosa, etc.; 200 skins and a number of nests and eggs from northwestern Arctic America; 111 skins from Yucatan and Vera Cruz; 116 skins from Panama; 11 Rails, in the flesh, from Connecticut.

## DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

#### BY GIFT

SENCKENBERG MUSEUM, Frankfurt-a-Main, Germany.

Complete skeleton of *Mystriosaurus*, a marine crocodile of the Jurassic Period, from Holzmaden in Württemberg.

MASTER CHARLES CARROLL THOMAS, New York City.

1 Mastodon Tooth.

E. C. WATERS, Poughkeepsie, N. Y.

Humerus of large Elk found in glacial drift at Brantford, Ontario.

#### BY EXCHANGE

MUSEO DE LA PLATA, Argentine Republic.

Series of casts of extinct South American mammals, including the skeleton of *Toxodon* and skull of *Onchippidium*.

UNIVERSITY OF TÜBINGEN, Germany.

Skeleton, uncrushed and nearly complete, of *Ophthalmosaurus*, an Ichthyosaurian marine reptile of the Jurassic Period.

#### BY PURCHASE

Partial skeleton of a fossil reptile (? Dinosaur) from the Triassic shales of the Newark formation at Fort Lee, N. J.

THROUGH MUSEUM EXPEDITIONS

CRETACEOUS OF MONTANA AND ALBERTA.

Skeletons of a Duck-billed Dinosaur, a small Horned Dinosaur and a large Armored Dinosaur; parts of skeletons of Carnivorous and Herbivorous Dinosaurs.

PERMIAN OF SOUTH AFRICA.

Skeleton of *Delphinocephalus* and series of skulls of other ancient and peculiar reptiles of the Karroo formation in Cape Colony, collected by Dr. R. Broom.

TERTIARY OF WYOMING.

Collection of fossil mammals of the Lower Eocene from the Big Horn Valley of Wyoming, about 600 catalogued specimens, including a mountable skeleton of the Four-toed Horse and many skulls, jaws and other parts of new or little-known species.

DEPARTMENT OF ICHTHYOLOGY AND  
HERPETOLOGY

BY GIFT

CLEVELAND H. DODGE FUND.

Collection of fishes made in Moon Lake, Mississippi, including the Paddlefish, Garpike, and a general collection of local fishes (about 20 species).

Collection of about 120 species of fishes from the Pacific coast, made by Dr. E. C. Starks of Leland Stanford University.

Collection of 65 specimens of Arthrodira from the Cleveland shales of Ohio, made by Mr. Peter A. Bungart.

7 Fishes collected by Mr. W. T. Kinnear in the Old Red Sandstone of Scotland, including *Mesacanthus*, *Ischnacanthus* and *Dipterus*.

1 *Aspidorhynchus acutirostris* from the Lithographic shales of Bavaria.

3 *Xenacanthus* from the collection of Professor Anton Fritsch of Bohemia.

2 Fossil fishes from Dr. F. Krantz, Bonn, Germany, from the Upper Oligocene of Hessen.

11 Fossil fishes from the Upper Devonian of Canada, collected by Mr. Anthony Plourde, including *Eusthenopteron*, *Scaumenacia* and *Bothriolepis*.

A Small slab with numerous specimens of *Prolebias cephalotes* and one *Homosteus milleri*, from Ward's Natural Science Establishment, Rochester, N.Y.

2 Collections of teeth of *Ptychodus* collected in the Cretaceous of Kansas by Mr. Charles H. Sternberg.

ALESSANDRO FABBRI, New York City.

Collection of fishes made by the yacht "Tekla" in Florida waters  
and moulds of a Cub Shark and of a Saw-fish.

GEORGE MCKESSON BROWN, New York City.

1 Swordfish.

RUSSELL J. COLES, Danville, Va.

Collection of about 77 species of fishes from the coast of North Caro-  
lina.

DR. BASHFORD DEAN, Riverdale, N. Y.

A lantern fish (*Mausolius pennanti*).

DEPARTMENT OF ANTHROPOLOGY, transfer.

A pair of shark jaws from the Indian Ocean.

DEPARTMENT OF INVERTEBRATE ZOOLOGY, transfer.

3 or 4 Species of fishes collected in the Ashokan Survey.

5 Small fishes collected by Mr. Harlan I. Smith in Alaska.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY, transfer.

1 Skull and one alcoholic specimen of the fresh-water Ling.

OTTO FALKENBACH, New York City.

1 Angler.

DWIGHT FRANKLIN, New York City.

1 Threadfish.

DR. E. W. GUDGER, Goldsboro, N. C.

4 Sea Catfish and a number of Catfish from the coast of North  
Carolina.

JOHN HISCOX, New York City.

1 Burrfish.

OSCAR T. MACKEY, New York City.

1 Small-mouthed Black Bass.

NEW YORK AQUARIUM, New York City.

About 50 fishes, including a Sailfish, a Wreckfish, an albino Trout  
and a Tunny.

JOHN T. NICHOLS, New York City.

20 Species of fishes from the Pacific coast.

PEARY ARCTIC EXPEDITION.

1 Species of Trout.

VICTOR J. RODRIGUEZ, Matanzas, Cuba.

Dried specimens of 1 Batfish and 1 Flying Gurnard.

WILLIAM JAY SCHIEFFELIN, New York City.

1 Amberjack.

NORMAN TAYLOR, New York City.

1 Lionfish.

WILLIAM C. VAN ANTWERP, New York City.

1 Mounted Sailfish.

LAWRENCE WATERBURY, New York City.

1 Mounted Sailfish.

BY EXCHANGE

DEPARTMENT OF FISHERIES, Sydney, New South Wales.

A number of specimens of the Rough-backed Herring, *Potamolosoma nova-hollandae*.

FREE PUBLIC MUSEUM, Liverpool, England.

1 *Protopterus*, 1 *Periophthalmus*, 1 *Macrurus* and 4 casts of fishes.

ROYAL SCOTTISH MUSEUM, Edinburgh, Scotland.

A cast of *Homosteus milleri* and one of *Cladodus neilsoni*.

REPTILES AND BATRACHIANS

BY GIFT

CLEVELAND H. DODGE FUND.

9 *Bufo lentiginosus*, 2 *Rana catesbeiana*, 7 *Rana sphenoccephala*, 6 *Engystoma carolinense*, 11 *Scaphiopus holbrookii*, 2 *Amphiuma* and 6 *Manculus quadridigitatus* from Raleigh, N. C.

9 *Bufo lentiginosus*, 24 *Bufo quercicus* and 2 *Siren lacertina* from Florida.

21 *Bufo americanus* from Chicago, Ill.

1 *Amphiuma* from Hale Co., Alabama.

8 *Necturus* from Ithaca, N. Y.

2 *Amblystoma punctatum* from Stamford, Conn.

Development stages of *Necturus maculatus* from Oconomowoc, Wis.

Development stages of *Cryptobranchus allegheniensis* from Pennsylvania.

DR. THOMAS BARBOUR, Cambridge, Mass.

1 *Rana montesuma* from Mexico.

DANIEL C. BEARD, Flushing, L. I.

1 *Cryptobranchus allegheniensis* from Covington, Ky.

THOMAS BLEAKNEY, Brooklyn, N. Y.

9 *Bufo fowleri*, 3 *Rana palustris* from Yonkers, N. Y.

F. BISHOP, Cambridge, Mass.

1 Spiny-tailed Iguana.

DR. L. C. BUCKLEY, Bangkok, Siam.

1 Lizard skin from Siam.

C. S. BRIMLEY, Raleigh, N. C.

7 *Manculus quadridigitatus* from Raleigh, N. C.

CHARLES CHRISTMAN, New York City.

12 *Rana sylvatica*, 20 *Hyla pickeringii* from Bryn Mawr Park.

WILLIAM T. DAVIS, New Brighton, Staten Island, N. Y.

7 *Bufo americanus* and 1 *Bufo fowleri* from Clayton, Ga.

1 *Bufo fowleri* from Washington.

RICHARD DECKERT, Mount Vernon, N. Y.

12 *Hyla pickeringii*, 8 *Rana sylvatica*.



## DEPARTMENT OF INVERTEBRATE ZOOLOGY.

From Ashokan Survey: 5 *Bufo americanus*, 7 *Bufo fowleri*, 7 *Rana catesbiana*, 28 *Rana clamitans*, 56 *Rana palustris*, 1 *Rana sylvatica*, 4 *Hyla pickeringii*, 26 tadpoles of various species; 53 *Desmognathus fusca*, 3 *Desmognathus ochrophæa*, 55 *Diemyctylus viridescens* 16 *Plethodon cinereus*, 1 *Plethodon glutinosus*, 1 *Spelerpes bilineatus*, 1 *Spelerpes ruber*, 1 *Chelydra serpentina*, 1 *Chrysemys picta*, 1 *Cyclophis vernalis*, 6 *Natrix fasciata sipedon*, 3 *Thamnopsis saurita*, 3 *Thamnopsis sirtalis*.

Small collection of Batrachians and Reptiles from the Philippine Islands.

Collection of Batrachians from Colorado Springs.

Collection from localities in New York: 5 *Bufo americanus*, 2 *Rana sylvatica*, 2 *Hyla pickeringii*, 3 *Amblystoma punctatum*, 4 *Desmognathus fusca*, 4 *Plethodon cinereus*, 2 *Plethodon glutinosus*.

3 Lizards from Havana, Cuba.

## DEPARTMENT OF PUBLIC EDUCATION OF THE MUSEUM.

1 Hognosed Snake (*Heterodon platyrhinus*).

H. S. DICKERSON, Lafayette, Ind.

7 *Bufo fowleri* from Indiana.

18 *Amblystoma opacum*, 1 *Amblystoma punctatum*, 1 *Desmognathus fusca*, 14 *Diemyctylus viridescens*, 2 *Spelerpes bilineatus* from Providence, R. I.

3 *Autodax lugubris*, 3 *Batrachoseps attenuatus*, 9 *Hyla regilla* from Palo Alto, Calif.

Collection of Salamanders, showing life histories, from California and Rhode Island.

DR. T. B. FORD, Columbia, Miss.

1 Congo Eel (*Amphiuma means*) from Columbia.

DWIGHT FRANKLIN, New York City.

8 *Bufo americanus*, 15 *Diemyctylus viridescens*, 12 *Rana clamitans* and a small collection of Reptiles.

ARTHUR G. HAMILTON, New York City.

4 Painted Turtles (*Chrysemys picta*).

ADAM HERMANN, New York City.

A collection of 35 Lizards from Europe and America.

GNEOMAR VON KROCKOW, Brooklyn, N. Y.

2 Water-snakes (*Tropidonotus fasciatus*) from New York.

SEÑOR PEDRO LOPEZ, Bogota, Colombia.

1 Snake skin from U. S. of Colombia.

HON. MASON MITCHELL, U. S. Consul, Apia, Samoa.

2 Snakes from Samoa.

NEW YORK AQUARIUM, New York City.

1 *Hyla maxima*, 2 *Chrysemys picta*, 1 *Rana catesbiana*, 1 young Alligator, 2 Hawk's-bill Turtles (*Chelonia imbricata*).

NEW YORK ZOÖLOGICAL PARK.

- 1 Green Tree Snake, 1 Hooded Cobra, 1 Australian Carpet Snake (*Morelia variegata*), 1 Indian Rat Snake (*Zamensis mucosus*), 4 young Copperhead Snakes (*Ancistrodon contortrix*), 1 Hognosed Snake (*Heterodon platyrhinus*), 9 young Banded Rattlers (*Crotalus horridus*), 1 Ribbon-snake (*Eutonnia saurita*), 1 Bushmaster (*Lachesis mutus*), 1 European Coluber, 12 young Water-snakes, 2 Spotted Turtles (*Chelopus guttatus*), 3 South American Tortoises (*Testudo elegans*), 9 Surinam Toads (*Pipa americana*).

JOHN T. NICHOLS, Englewood, N. J.

- 5 *Bufo boreas* from Oregon.

W. B. NICHOLS, New York.

Collection of Snakes from Long Island and Cold Spring Harbor.

WILLIAM B. OLNEY, Seekonk, Mass.

- 27 *Bufo fowleri*, 4 *Hyla versicolor*, 10 *Rana pipiens* from Seekonk.

PROF. J. E. REIGHARD, Ann Arbor, Mich.

- 20 *Bufo americanus* from Ann Arbor.

HON. THEODORE ROOSEVELT, Oyster Bay, L. I.

Toad (*Bufo cognatus*) swallowing Salamander (*Amblystoma tigrinum*).

STANFORD UNIVERSITY, California.

- 24 Tree Frogs (*Hyla regilla*) from Palo Alto, Calif.

F. WEINBERG, Long Island, N. Y.

Small collection of Turtles.

BY EXCHANGE

MUSEUM OF COMPARATIVE ZOÖLOGY, Cambridge, Mass.

- 1 *Bufo melanostichus*, 1 *Amblysephalus carinatus*, 1 *Draco volans*,  
1 *Dryophis prasinus*, 1 *Mabuia multifaciata*, 1 *Natrix vittata*,  
1 *Natrix subminiata*, 1 *Natrix trianguligera*, 1 *Ptychozoon kuhli* from Java.

- 1 *Hyla dolichopsis*, 1 *Dasia smaragdinum* from Sorong, New Guinea.

- 1 *Rana varians*, Blgr. from Moluccas.

THROUGH MUSEUM EXPEDITIONS

Moon Lake, Mississippi: Small collection of Batrachians and Reptiles secured by Dr. Louis Hussakof and Mr. Dwight Franklin.

Shimidzu, Japan: 1 *Bufo formosus*, 9 *Hyla arborea japonica*.

Secured by Mr. Roy C. Andrews.

DEPARTMENT OF ANTHROPOLOGY

BY GIFT

F. D. ALLER, Gatico, Chile.

Archæological collection from Cobija, Chile.

ALLISON T. ARMOUR, New York City.

Head-hunter's knife from Borneo.

FREDERICK BAUER, New York City.

Collection from the Seminole Indians of Florida.

WALTER H. BEEBE, New York City.

Porcelain brick from Porcelain Tower, Nanking, China.

DR. H. C. BUMPUS, New York City.

Indian basket from Connecticut and ethnological collection from Mexico, including 18 pieces of pottery.

T. W. CHURCH, New York City.

Collection of Chinese weapons.

WILLIAM C. CHURCH, New York City.

Stone idol found at Panama.

RUSSELL J. COLES, Danville, Va.

2 Potsherds from New River Inlet, N. C.

COLUMBIA UNIVERSITY, New York City.

2 Stone arrow points found near Aurora, N. Y.

CONSOLIDATED TELEGRAPH AND ELECTRICAL SUBWAY CO.,  
New York City.

Old Indian dugout canoe found near Cherry Street, New York City.

E. W. DEMMING, New York City.

Ear of sacred corn used in Indian ceremonies.

ANSON W. HARD, New York City.

Collection of blankets and belts from Mexico and New Mexico.

BLAIZE LORILLARD HARSELL, Bedford, N. Y.

Painted elk skin.

MISS MILFORD H. HOAG, New York City.

6 Chinese models.

DR. J. RAMSAY HUNT, New York City.

Mummy from Catacombs of Guanajuato, Mexico.

B. T. B. HYDE, New York City.

14 Navajo looms.

DR. GEORGE F. KUNZ, New York City, and MR. CHARLES HUGH  
STEVENSON, Washington, D. C.

Shell beads from Pipemaker Creek, Ga., and four hammerstones from Georgia.

M. F. McCORD, Rush Springs, Okla.

3 Moulds of Indian work on rocks at Rush Springs, Okla.

HON. MASON MITCHELL, U. S. Consul, Apia, Samoa.

1 Woven mat, 1 grass dress and three pieces of tapa cloth from Apia, Samoa.

J. PIERPONT MORGAN, New York City,

Ethnological collection from North America. This collection contains a large number of costumes, weapons, utensils and ceremonial objects from the Plains, Navajo and Apache tribes.

BOSWELL L. MURRAY, Brooklyn, N. Y.

Pipe obtained at Moorehead, Minn.

MRS. RUSSELL SAGE, New York City.

Collection of blankets and costumes from the Navajo and Moki Indians.

OTTO SCHMIDT, New York City.

5 Arrows from New Guinea.

DR. LOUIS LIVINGSTON SEAMAN, New York City.

12 Pottery vessels and 1 human figure carved in wood from Chepen, Peru.

MRS. E. L. SEIDENSTICKER, South Orange, N. J.

Wax figure of a Mexican potter.

DR. W. J. SINCLAIR, Princeton, N. J.

Steatite cylinder found near Lander, Wyo.

F. H. SLACK, New York City.

Cane from Japan.

DR. HERBERT J. SPINDEN, New York City.

Archæological collection from Burgois Mound, near Bismarck, N. D., part of a decorated skin capa from Brazilian Chaco and a cast of a jade ornament found in Yucatan.

D. C. STAPLETON, Esmeraldas, Ecuador.

Ethnological and archæological collection from Esmeraldas, Ecuador.

JAMES TEIT, Spences Bridge, British Columbia.

Model showing method of attaching string to smooth pebbles used as net sinkers among the Thompson River Indians.

HENRY UTARD, New York City.

1 Stone idol and two pieces of pottery from Mexico.

E. C. WATERS, Poughkeepsie, N. Y.

Piece of French iron tomahawk from Bramford, Ontario, Canada.

F. WEINBERG, Woodside, L. I.

4 Flower pots and piece of native rope from India.

BY EXCHANGE

WALLACE F. PECK, New York City.

Eskimo drum from St. Michael Island, Alaska.

STATE HISTORICAL SOCIETY OF WISCONSIN, Madison, Wis.

Archæological collection from Wisconsin.

THROUGH MUSEUM EXPEDITIONS

Ethnological collection from the South Sea Islands. Collected by Mr. Roy C. Andrews.

Ethnological collection from the South Sea Islands. Collected by Professor Henry E. Crampton.

Ethnological and archæological collections from the San Carlos Apache, the White Mountain Apache and the Navajo of Arizona. Collected by Dr. P. E. Goddard. Provided for by Mr. Archer M. Huntington.

Ethnological collection from the Crow Indians of Montana and from the Hidatsa Indians at Fort Berthold, N. D. Collected by Dr. Robert H. Lowie.

Archæological collection from Mexico and Yucatan and ethnological collection from the Rio Grande Pueblos. Collected by Dr. Herbert J. Spinden. Provided for by Mr. Archer M. Huntington.

Ethnological collection from the Hidatsa Indians. Collected by Rev. Gilbert L. Wilson.

Ethnological collection from the Pima and Papago Indians. Collected by Dr. Clark Wissler. Provided for by Mr. Archer M. Huntington.

Ethnological collections from the Menomini Indians of Wisconsin and from the Seminole Indians of Florida. Collected by Mr. Alanson Skinner.

#### BY PURCHASE

Miss M. I. BAYLY, New York City.

Ethnological specimens from Java.

Miss LAURA E. BENEDICT, New York City.

Ethnological collection from the Philippine Islands.

REGINALD PELHAM BOLTON, New York City.

Archæological collection from New York City.

Miss M. A. CAVENAGH, New York City.

Woman's work-basket and wooden object inlaid with shell from Peru.

CAPT. GEORGE COMER, East Haddam, Conn.

Collection of boats, clothing, implements and ornaments of the Eskimo of Southampton Island and west shore of Hudson Bay.

HARRY FOSTER DEAN, Yonkers, N. Y.

Ethnological collection from Africa.

T. E. DONNE, Wellington, New Zealand.

2 Stone idols from New Zealand.

LIEUT. G. T. EMMONS, Princeton, N. J.

114 Baskets from British Columbia.

NICHOLAS GRAY, Unalaska, Alaska.

Collection of boats, sea-otter spears, rain coats and models from Alaska.

M. R. HARRINGTON, Shawnee, Okla.

Ethnological collection from the Comanche Indians.

W. C. HILL, New York City.

Ethnological collection from various localities, including Arkansas and Alaska, South America, Australia, South Sea Islands and Philippine Islands.

Miss KATHERINE MAYO, Cape Cod, Mass.

Ethnological collection from Dutch Guiana.

RALPH MEYERS, Taos, New Mexico.

Collection from Taos Pueblo.

CAPT. WILLIAM MOGG, Point Barrow, Alaska.

Collection from the Eskimo of Banks Land.

EMIL MOSONYI, New York City.

Collection of ethnological specimens from Guatemala.

CAPT. JAMES S. MUTCH, Peterhead, Scotland.

Ethnological collection from Whale Fish Islands, near Disco, Greenland.

- WILLIAM NIVIN, City of Mexico.  
Jade ornament of Maya culture.
- T. R. RODDY, Winnebago City, Neb.  
Collection from Winnebago Indians.
- ALANSON SKINNER, Staten Island, N. Y.  
Collection from the Winnebago and Cayuga Indians.
- SONORA NEWS COMPANY, City of Mexico.  
Imitation codex from Mexico.
- F. G. SPECK, Philadelphia, Pa.  
8 Specimens from the Ottawa, Chippewa, and Pottawatomie Indians.
- REV. G. W. STAHLBRAND, Brooklyn, N. Y.  
Ethnological collection from the Congo.
- PROF. FREDERICK STARR, Chicago, Ill.  
Large ethnological collection from the Congo, Africa.
- ERASTUS T. TEFFT, New York City.  
Large ethnological collection from North America, in part the gift of Mr. Felix M. Warburg and Dr. James Douglas. This collection contains a large number of specimens from the Woodland tribes and several very interesting specimens from the Southwest tribes.
- B. VITOLO, New York City.  
2 Bronze mirrors from China.
- REV. A. R. WILLIAMS, New York City.  
Ethnological collection from the Lower Congo, Africa.
- FRED HARVEY, Hopi House, Grand Canyon, Ariz.  
Ethnological collection from the Hopi.

## DEPARTMENT OF MINERALOGY

### BY GIFT

#### THE MATILDA W. BRUCE FUND.

- 43 Specimens of minerals, including Antimony, Amazon Stone, Beryl (pink), Binnite, Blomstrandine, Calcite, Carnotite, Cerussite, Clinocllore, Corundum, Covellite, Davidite, Enargite, Gadolinite, Galena, Garnierite, Gold, Hambergite, Hyalite, Natrochalcite, Orthoclase, Pearceite, Phenacite, Phenacite (crystal), Pyrite, Pyrrhotite (crystallized), Amethystine Quartz, Seligmanite, Serpentine, Snarumite, Sphalerite, Topaz, Topaz on Orthoclase, Vesuvianite, Wulfenite, Zoisite.
- JOHN H. DEANE, New York City.  
2 Specimens of large green Beryl from Mt. Apatite, Me.
- DR. JAMES DOUGLAS, through Mr. G. D. Van Arsdale, New York City.  
Vanadium and Uranium ores from Utah.
- A. D. GABAY, New York City.  
1 Specimen of Quartz (crystal in the rock), Herkimer Co., N. Y.  
1 Box of free crystals (Quartz).

GEOLOGICAL SURVEY OF GEORGIA, through Mr. S. W. McCallis,  
State Geologist.

1 Specimen of Bauxite, Floyd Co., Ga.

C. C. GOSTLING, New York City.

2 Specimens of Infusorial Earth, Wilkerson, Va.

C. W. HOADLEY, Englewood, N. J.

1 Specimen of Stilbite, West Paterson, N. J.

MRS. A. J. HOWELL, New York City.

A miscellaneous assemblage of mineral fragments.

C. H. JONES, New York City.

3 Specimens of Anthracite Coal with starlike impressions.

RALPH KIRSH, New York City.

4 Specimens of Cassiterite pebbles (placer), Buck Creek, York, Alaska.

1 Vial of Cassiterite (concentrates), Buck Creek, York, Alaska.

ROBERT LEE, Brooklyn, N. Y.

1 Specimen China Clay, China.

R. B. MEYERS, New York City.

1 Specimen Limonite concretion, Forest Hill, L. I.

1 Specimen Pyrite sphere, Little Neck Bay, L. I.

J. PIERPONT MORGAN, New York City.

1 Large oval-cut gem of Rose Beryl (Morganite), 57½ carats, from Madagascar.

1 Fragment of Rose Beryl (crystal) from Madagascar.

OTTO F. PFORDTE, Rutherford, N. J.

1 Specimen Pectolite, West Paterson, N. J.

1 Specimen Thaumasite, West Paterson, N. J.

1 Specimen Zinnwaldite, Zinnwald, Saxony.

1 Specimen Patronite, Quisque, Peru.

1 Specimen Red Oxide of Vanadium, Peru.

1 Specimen Chalcopyrite, Bergen Hill, N. J.

2 Specimens Radiated Willemite, Franklin, N. J.

OTTO SCHMIDT, New York City.

40 Specimens miscellaneous minerals.

OTTO VEATCH, Atlanta, Ga. (Assistant Geologist, State Survey, Georgia).

1 Specimen Ripidolite, Habersham Co., Ga.

DR. F. B. VON TEUBER, through Charles W. Mead, New York City.

1 Specimen Gold Sand, San Blas coast, Panama.

#### BY PURCHASE

1 Specimen Cuprite, Bisbee, Cochise Co., Ariz.

1 Specimen Thaumasite, enclosing Heulandite and Apophyllite.

1 Specimen Thaumasite, West Paterson, N. J.

1 Specimen Natrolite, West Paterson, N. J.

1 Specimen Natrolite on Datolite.

5 Specimens Awaruite, Smith River, Calif.

- 1 Specimen Sylvanite, Cripple Creek, Colo.
- 1 Specimen Sylvanite, Transylvania, Hungary.
- 2 Specimens Tourmaline, Pala, Calif.
- 1 Specimen Tourmaline and Albite, Pala, Calif.
- 2 Specimens Calcite, St. Lawrence Co., N. Y.
- 1 Specimen Native Silver, Houghton, Mich.

BY EXCHANGE

ANTON BERGER, Austria.

- 1 Specimen Rhodochrosite, Kapnik, Hungary.
- 1 Specimen Bournonite, Felsobanya, Hungary.
- 1 Specimen Bournonite on Galena, Felsobanya, Hungary.

R. B. GAGE, Trenton, N. J.

- 1 Specimen Alamosite, Alamosa, Mexico.

ALFRED C. HAWKINS, Seewaren, N. J.

- 1 Specimen massive Polydelphite, Franklin Furnace, N. J.
- 1 Specimen Pyroxene, Morris Co., N. J.
- 1 Specimen Serpentine in Dolomite, Morris Co., N. J.
- 1 Specimen Hedenbergite, Shasta Co., Calif.
- 1 Specimen Chalcocite, Franklin, N. J.
- 1 Specimen Biotite, Franklin, N. J.

CHAS. H. JONES, New York City.

- 1 Specimen Aegyrite, Magnet Cove, Ark.

A. L. PARSONS, Toronto, Canada.

- 1 Specimen Native Antimony, West Gore, Nova Scotia.
- 1 Specimen Chalcocite, Tatamagouche, Nova Scotia.
- 1 Specimen Cinnabar, Cherry Creek, Kamloops, B. C.
- 1 Specimen Cobaltite crystals, Cobalt, Ontario.
- 1 Specimen Corundum, India.
- 1 Specimen Erythrite, Creston, B. C.
- 1 Specimen Gold (native), Larder Lake, Ontario.
- 1 Specimen Howlite, Wentworth, Nova Scotia.
- 1 Specimen Kermesite and Stibnite, West Gore, Nova Scotia.
- 1 Specimen Niccolite, Cobalt, Ontario.
- 1 Specimen Pyromorphite, Moyie, B. C.
- 1 Specimen Quartz (blue), Roseland, Va.
- 1 Specimen Scapolite, Cardiff Township, Ontario.
- 1 Specimen Sodalite, Sodalite Creek, B. C.
- 1 Specimen Staurolite, Jordan Falls, Nova Scotia.
- 1 Specimen Ulexite on Gypsum, Wentworth, Nova Scotia.

A. H. PETEREIT, New York City.

- 1 Specimen Phlogopite, Franklin Furnace, N. J.

GEO. O. SIMMONS, Brooklyn, N. Y.

- 1 Specimen massive Sphalerite, Lehigh Co., Pa.

MILTON G. SMITH, New York City.

- 2 Specimens Rhodonite, Franklin Furnace, N. J.



## DEPARTMENT OF INVERTEBRATE ZOÖLOGY

## INVERTEBRATES

## BY GIFT

- J. M. ALDRICH, Moscow, Idaho.  
2 Specimens of *Hydrophorus magdalena*.
- G. W. J. ANGELL, New York City.  
Type and 4 cotypes of *Corymbites weidtii*, type and 2 cotypes of *Elmis columbiensis* from British Columbia; 375 insects from Lavalette, N. J., and 1 specimen of *Megasoma hector*.
- NORMAN ARMOUR, Princeton, N. J.  
8 Specimens of Insects.
- H. G. BARBER, Roselle Park, N. J.  
A collection of local Hemiptera.
- GEORGE F. BERTHOUD, Waroona, West Australia.  
110 Australian Insects.
- THEODORE BITTERMAN, New York City.  
1 Centipede from Mindanao, Philippine Islands.
- J. F. BRIZZIE, New York City.  
1 Tarantula.
- C. F. CLARK, Havana, Cuba.  
1 Lot of Spiders and Insects from Havana, Cuba.
- JAMES L. CLARK, New York City.  
6 Vials of Orthoptera, Myriapods, Ants, etc., from British East Africa.
- PROF. T. D. A. COCKERELL, Boulder, Colo.  
3 Leaves of *Bouteloua digostachya* with *Targionia graminella* from Leyden, Colo.
- RUSSELL J. COLES, Danville, Va.  
1 Lot of Marine Invertebrates.
- WILLIAM T. COMSTOCK, Newark, N. J.  
515 Local Insects.
- W. T. DAVIS, New Brighton, Staten Island, N. Y.  
A collection of Myriapods and Spiders from Georgia, and a collection of local Carabidæ and Orthoptera.
- DR. BASHFORD DEAN, Riverdale, N. Y.  
1 Nautilus trap from Cebu, Philippine Islands.
- R. P. DOW, New York City.  
A collection of local Carabidæ.
- G. P. ENGELHARDT, Brooklyn, N. Y.  
4 Hippoboscidæ from Philadelphia, Pa., and a collection of local Water-beetles.
- MR. AND MRS. JAS. A. ESTY, Sherman, Me., through J. Pierpont Morgan.  
1 Hornets' Nest.
- DR. SPENCER FRANKLIN, Las Juntas, Costa Rica.  
2 Insects from Abangarez Gold Field, Las Juntas, Costa Rica.

- A. D. GABAY, New York City.  
3 Sponges from Fanning Island, Pacific Ocean.
- J. A. GROSSBECK, New Brunswick, N. J.  
425 Local Insects.
- ERNST HÆCKEL, Jena, Germany.  
A series of 34 microscopic slides of Radiolaria from various localities.
- THOMAS HALLINAN, Paterson, N. J.  
7 *Crioceris* from Erie, Pa.
- E. D. HARRIS, New York City.  
50 Cicindelidæ from various localities.
- M. A. HASLEHURST, New York City.  
A collection of Seafans, Corals, etc., from various localities.
- GEORGE G. HEYE, New York City, through Mr. S. A. Barrett.  
A collection of Insects from Ecuador.
- MASTER WILLIAM HOPFNER, New York City.  
26 Coleoptera and 11 Lepidoptera from Rio de Janeiro.
- W. A. HORN, Melbourne, Australia.  
2 Crabs (*Phlogius crassipes*) and 1 Spider (*Telphusa transversa*) from Central Australia.
- A. J. HOWELL, New York City.  
A collection of Sponges, Corals and other invertebrates from Nassau, Bahama Islands.
- MRS. WARDLEY HUNT, Orange, N. J.  
Globe with several hundred Cicada shells.
- DR. R. T. JACKSON, Cambridge, Mass.  
2 Specimens of *Strongylocentrotus franciscanus* from Puget Sound.
- G. W. KEMP, New York City.  
1 Piece of wood from Bolivia with work of spiders.
- E. KIRBY, Brooklyn, N. Y.  
1 Tarantula.
- GNEOMAR VON KROCKOW, Brooklyn, N. Y.  
A collection of local Arthropods, Worms and Molluscs.
- DR. G. LAGAI, New York City.  
2 Spiders from Corozal, Panama.
- DR. C. W. LENG, New York City.  
1 *Omus intermedius*.
- DR. E. G. LOVE, New York City.  
A collection of local Carabidæ.
- DR. F. E. LUTZ, New York City.  
400 Insects from various localities and 1 Tape-worm (*Tenia saginata*).
- J. R. McLANE, New York City.  
Several hundred Lepidoptera from the United States and Europe.
- DR. THEODORE C. MERRILL, Colorado, Tex.  
A collection of Insects and Spiders from Texas.
- HON. MASON MITCHELL, U. S. Consul, Apia, Samoa.  
1 Bottle of Palolo Worms and 1 Beetle.

DR. MAX MORSE, Hartford, Conn.

1 *Blabera trapexioidea*.

F. MUIR, Honolulu, Hawaii.

1 *Peripatus ceramensis* from New Guinea.

NEW YORK AQUARIUM, New York City.

4 Specimens of Crustacea and 3 specimens of Coral.

JOHN T. NICHOLS, Englewood, N. J.

2 Goose Barnacles and 3 *Chiton* sp. from Elk Creek, Cañon Beach, Ore.

CHRISTIAN E. OLSEN, Maspeth, N. Y.

60 Local Coleoptera.

DR. R. C. OSBURN, New York City.

A collection of local Syrphidæ and Conopidæ.

DR. A. PETRUNKEVITCH, Montclair, N. J.

1 Spider (*Filistata hibernalis*) from Huntsville, Tex.

C. R. PLUNKETT, Flushing, L. I.

20 Local Membracids from Flushing, L. I.

JAMES RICALTON, Maplewood, N. J.

17 Tsetse Flies from Rhodesia, Africa.

MAJOR W. ROBINSON, West Point, N. Y.

150 Coleoptera from West Point, N. Y.

W. H. SANDBORN, Mattituck, N. Y.

3 Egg-cases of *Natica heros* and 3 Piddock Clams (*Pholas truncata*) from Mattituck, N. Y.

C. SCHAEFFER, Brooklyn, N. Y.

Various local Coleoptera.

ALANSON SKINNER, New York City.

50 Insects from Everglades, Fla., and 36 from Keshena, Wis.

CHARLES E. SLEIGHT, Ramsey, N. J.

A collection of local Orthoptera and Carabidæ.

HARLAN I. SMITH, New York City.

A collection of Annulata, Crustacea, Insecta and Mollusca from Alert Bay, Vancouver Island, B. C.

DR. E. B. SOUTHWICK, New York City.

A collection of Scale Insects from Central Park, New York City.

STATEN ISLAND ASSOCIATION OF ARTS AND SCIENCES, New Brighton, S. I.

56 Local Lepidoptera.

P. TANSSEAU, Madagascar.

9 Specimens of Lepidoptera from Madagascar.

WILL S. TAYLOR, New York City.

1 Spider from Hastings-on-Hudson, New York.

DR. A. L. TREADWELL, Poughkeepsie, N. Y.

26 Vials of Annulates from various localities.

F. WINTERSTEINER, Long Island City, N. Y.

472 European Coleoptera.

L. B. WOODRUFF, New York City.

26 Local Odonata.

Mrs. C. WUNDER, Passaic Junction, N. J.

200 Insects from Passaic Junction, N. J.

BY EXCHANGE

UNIVERSITY OF CALIFORNIA, Berkeley, Calif.

1 Lot of alcoholic Annulates from the Pacific Coast.

STATEN ISLAND ASSOCIATION OF ARTS AND SCIENCES, New

Brighton, Staten Island, N. Y.

26 Insects from Staten Island.

G. W. J. ANGELL, New York City.

4100 Local Coleoptera.

J. W. ANGELL, New York City.

A collection of Coleoptera.

BY PURCHASE

Three jars of *Diopatra cupraa*, *Phascolosoma gouldii*, *Chatopterus variopedatus* from Woods Hole, Mass.

Two Spiders and 2 Scorpions from Dominica, W. I.

One Lot of Coleoptera, Hemiptera, Orthoptera, Arachnida, Myriapoda, etc., from the Philippine Islands.

One collection of Hymenoptera (including 71 vials of Ants), Diptera, Orthoptera, Arachnida, etc., from Paraguay, South America.

One collection of *Balanoglossus kowalevskii* from Woods Hole, Mass.

One lot of Molluscs, Crustaceans, Echinoderms and Annulates from the Pacific Coast.

48 Microscopic slides of typical Rotifera prepared by Mr. C. F. Rousselet.

A collection of about 1500 Insects from Formosa.

A collection of Fossil Plants and Insects from Florissant, Colo.

THROUGH MUSEUM EXPEDITIONS

One collection of Echinoderms, Crustaceans and other Marine Invertebrates from Samoa. Collected by Prof. Henry E. Crampton.

One collection of Annulates from Dry Tortugas, Fla. Collected by Prof. Aaron L. Treadwell.

One collection of Invertebrates from Woods Hole and Nahant, Mass., and Casco Bay, Me. Collected by Mr. Roy W. Miner.

One collection of Myriapods, Spiders, Ants and other Invertebrates from Moon, Mississippi. Collected by Dr. Louis Hussakof and Mr. Dwight Franklin.

One collection of various Invertebrates from the vicinity of New York City. Collected by Dr. Frank E. Lutz.

## LEPIDOPTERA

## BY GIFT

GEORGE F. BERTHOUD, Waroona, West Australia.

A collection of West Australian Lepidoptera.

W. D. KEARFOTT, Montclair, N. J.

A fine series of *Serrothripa reveviana* showing the variation of the species.

WILLIAM SCHAUS, London, England.

A collection of 500 Central and South American Lepidoptera.

## BY PURCHASE

A collection of 3500 specimens of North American Noctuidæ.

A collection of Butterflies from Formosa.

A collection of 400 North American Geometridæ.

## MOLLUSCA

## BY GIFT

Miss ELIZABETH W. CATKIN, New York City.

Miscellaneous collection of shells from Bermuda.

Miss D. F. CRERAND, New York City, through Dr. G. F. Kunz.

Oyster shell (*O. virginica*) with adherent pearl, and 7 loose pearls.

A. D. GABAY, New York City.

11 Polished valves of *Meleagrina margaritifera* ("black lip," "silver lip" and "golden edge").

7 *Nautilus pompilius* (4 cut to show siphuncle).

44 *Haliotes*, polished.

38 *Haliotes*, unpolished.

Specimens of *Cantharidus*, *Trochus*, *Turbo*, *Argonauta*, with aboriginal (?) necklaces of shells, and 86 cut and polished mother-of-pearl (*Haliotis*) ornaments.

1 *Meleagrina* with pearl.

A. DA COSTA GOMEZ, Brooklyn, N. Y.

1 Right-handed *Fulgur perversum* from Florida.

WALTER GRANGER, New York City.

*Lymnaea* and *Pyramidula*, semi-fossil shells from Shell Creek Cañon, Big Horn Mts., Wyo. (elevation 5000 ft.).

Weathered shells from Red Deer River, 30 miles south of Content, and 30 miles south of Stetler, B. C.

Mrs. M. A. HASLEHURST, New York City.

16 Species of shells, of the genera *Amussium*, *Cassis*, *Chiton*, *Cypraea*, *Fusus*, *Hippopus*, *Lucopina*, *Murex*, *Pteroceras*, *Spondylus*, *Strombus*, *Triton*.

Mrs. EDWARD B. MERRILL, through Liberian Consul, Hon. Edward B. Merrill.

1 Very large specimen of *Achatina achatina*, from West Africa.

P. PARTRIDGE, New York City.

Specimens of local shells from Rye Beach, N. Y.

EUGENE W. PRESBREY, New Rochelle, N. Y.

4 Specimens of *Cypraea exanthema* (showing young forms).

L. S. QUACKENBUSH, New York City.

20 Species of shells from Escholtz Bay, Alaska.

Miss FRANCES L. SPRAGUE, Flushing, L. I.

A collection of shells consisting of 121 genera, 1161 species and 2337 specimens.

CHARLES HUGH STEVENSON, Washington, D. C., through Dr. G. F. Kunz.

20 Valves of *Meleagrina* (mother-of-pearl) from Auckland, Banda Lea, Ceram, Costa Rica, Jeddah, Fiji, Gambia, Port Darwin, Mergui Sea, Tahiti; *Turbo marmoratus* from Macassar and New Guinea; *Trochus niloticus* from Timor, Philippines; *Haliotis cracherodii*, *H. discus*, *H. splendens*, *Livona pica*, valves of *Unio*.

BY EXCHANGE

CHARLES DAYTON GWYER, Brooklyn, N. Y.

154 Specimens (15 genera, 20 species) of New York State land, fresh-water and marine shells.

J. W. JUDD, Brooklyn, N. Y.

4 Specimens of *Leucosonia multangula*, Phil., from Yucatan.

WM. W. WEEKS, Brooklyn, N. Y.

7 *Columbella nitida*, 11 *Euryta aciculata*, var. *nodosoplicata*, Dkr., 9 *Marginella interrupta*, 3 *Oliva oblonga*; all from Caribbean Sea.

BY PURCHASE

A collection of shells from Jamaica, comprising 18 species.

55 Specimens and 32 species of Western pearl-bearing fresh-water clams, ground and polished.

# INCORPORATION

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## AN ACT

TO INCORPORATE THE

## AMERICAN MUSEUM OF NATURAL HISTORY

Passed April 6, 1869

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*The People of the State of New York, represented in Senate and Assembly, do enact as follows :*

SECTION 1. John David Wolfe, Robert Colgate, Benjamin H. Field, Robert L. Stuart, Adrian Iselin, Benjamin B. Sherman, William A. Haines, Theodore Roosevelt, Howard Potter, William T. Blodgett, Morris K. Jesup, D. Jackson Steward, J. Pierpont Morgan, A. G. P. Dodge, Chas. A. Dana, Joseph H. Choate and Henry Parish, and such persons as may hereafter become members of the Corporation hereby created, are hereby created a body corporate, by the name of "The American Museum of Natural History," to be located in the City of New York, for the purpose of establishing and maintaining in said city a Museum and Library of Natural History; of encouraging and developing the study of Natural Science; of advancing the general knowledge of kindred subjects, and to that end of furnishing popular instruction.\*

SEC. 2. Said Corporation shall have power to make and adopt a Constitution and By-Laws, and to make rules and regulations for the admission, suspension and expulsion of its members, and their government, the number and election of its officers, and to define their duties, and for the safe keeping of its property, and, from time to time, to alter and modify such Constitution, By-Laws, Rules and Regulations. Until

**SEC. 3.** Said Corporation may take and hold by gift, devise, bequest, purchase or lease, either absolutely or in trust, for any purpose comprised in the objects of the Corporation, any real or personal estate, necessary or proper for the purposes of its incorporation.†

**SEC. 5.** This Act shall take effect immediately.

I have compared the preceding with the original law on file in this office, and do hereby certify that the same is a correct transcript therefrom, and of the whole of said original law.

**D. WILLERS, Jr.,** *Deputy Secretary of State.*

\* Sections 1 and 4. As amended by Chapter 162 of the Laws of 1909, entitled "An Act to amend chapter one hundred and nineteen of the laws of eighteen hundred and sixty-nine, entitled 'An Act to incorporate the American Museum of Natural History,' in relation to classifying said corporation and modifying its corporate purposes."



# CONTRACT

## WITH THE DEPARTMENT OF PUBLIC PARKS

FOR THE OCCUPATION OF THE NEW BUILDING

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THIS AGREEMENT, made and concluded on the twenty-second day of December, in the year one thousand eight hundred and seventy-seven, between the DEPARTMENT OF PUBLIC PARKS OF THE CITY OF NEW YORK, the party of the first part, and the AMERICAN MUSEUM OF NATURAL HISTORY, party of the second part, witnesseth:

*Whereas*, by an Act of the Legislature of the State of New York, passed April 22d, 1876, entitled "An Act in relation to the powers and duties of the Board of Commissioners of the Department of Public Parks, in connection with the American Museum of Natural History, and the Metropolitan Museum of Art," the said party of the first part is authorized and directed to enter into a contract with the said party of the second part, for the occupation by it of the buildings erected or to be erected on that portion of the Central Park in the City of New York, known as Manhattan Square, and for transferring thereto and establishing and maintaining therein its museum, library and collections, and carrying out the objects and purposes of said party of the second part; and,

*Whereas*, a building contemplated by said act has now been erected and nearly completed and equipped in a manner suitable for the purposes of said Museum, as provided in the first section of the Act of May 15, 1875, known as Chapter 351, of the Laws of 1875, for the purpose of establishing and maintaining therein the said Museum, as provided by the said last-named act, and by the Act of April 5, 1871, known as Chapter 290, of the Laws of 1871; and,

*Whereas*, it is desired as well by the said party of the first part, as by the said party of the second part, that, immediately upon the completion and equipment of said building, the said party of the second part should be established therein, and should transfer thereto its museum, library and collections, and carry out the objects and purposes of the said party of the second part;

Now, therefore, it is agreed by and between the said parties as follows, namely:

*First.*—That the said party of the first part has granted and demised and let, and doth, by these presents, grant, demise and let, unto the said party of the second part, the said buildings and the appurtenances thereunto belonging, to have and to hold the same so long as the said party of the second part shall continue to carry out the objects and purposes defined in its charter; or such other objects and purposes as by any future amendment of said charter may be authorized; and shall faithfully keep, perform, and observe the covenants and conditions herein contained on its part to be kept, performed and observed, or until the said building shall be surrendered by the said party of the second part, as hereinafter provided.

*Secondly.*—That neither the party of the first part, its successor or successors, nor the Mayor, Aldermen and Commonalty of the City of New York, shall be in any manner chargeable or liable for the preservation of the said building or the property of the party of the second part which may be placed therein, against fire, or for any damage or injury that may be caused by fire to the said property; but it is agreed that, damages as aforesaid excepted, the said party of the first part will keep said building, from time to time, in repair.

*Thirdly.*—That as soon after the completion and equipment of said building as practicable, said party of the second part shall transfer to, and place and arrange in said building, its museum, library and collections, or such portion thereof as can be properly displayed to the public therein, and shall have and enjoy the exclusive use of the whole of said building,

subject to the provisions herein contained, and the rules and regulations herein prescribed, during the continuance of the term granted, or until a surrender thereof, as herein provided.

*Fourthly.*—That the exhibition halls of said building shall, on Wednesday, Thursday, Friday and Saturday of each week, and on all legal or public holidays, except Sundays, be kept open and accessible to the public, free of charge, from nine o'clock A.M. until half an hour before sunset, under such rules and regulations as the party of the second part shall from time to time prescribe; but on the remaining days of the week the same shall be only open for exhibition to such persons, upon such terms as the said party of the second part shall from time to time direct. But all professors and teachers of the public schools of the City of New York, or other institutions of learning in said city, in which instruction is given free of charge, shall be admitted to all the advantages afforded by the said party of the second part, through its museum, library, apparatus, and collections, or otherwise, for study, research and investigation, free of any charge therefor, and to the same extent and on the same terms and conditions as any other persons are admitted to such advantages, as aforesaid.

*Fifthly.*—That the museum, library and collections, and all other property of said party of the second part, which shall or may be placed in said building, shall continue to be and remain absolutely the property of said party of the second part, and neither the said party of the first part nor the said the Mayor, Aldermen and Commonalty, shall by reason of said property being placed in said building, or continuing therein, have any right, title, property or interest therein; nor shall the said party of the second part, by reason of its occupation and use of said building under this agreement, acquire, or be deemed to have any right, title, property or interest in said building, except so far as expressly granted by this agreement.

*Sixthly.*—That the said party of the second part shall, on or before the first day of May, in every year, during the continuance of this agreement, submit to the said party of the first part, its successor or successors, a detailed printed report of the

operations and transactions of the said party of the second part, and all its receipts and payments, for the year ending with the 31st day of December next preceding.

*Seventhly.*—That said party of the first part shall have, at all times, access to every part of the said building for general visitation and supervision, and also for the purpose of the performance of the duties devolved upon it by the laws of the State of New York, or of the City of New York. That the police powers and supervision of said party of the first part shall extend in, through and about said building. That the said party of the second part may appoint, direct, control and remove all persons employed within said building, and in and about the care of said building, and the museum, library and collections therein contained.

*Eighthly.*—That said party of the second part may, at any time, after the expiration of three, and before the expiration of six, months from the date of the service of a notice in writing to said party of the first part, its successor or successors, or to the Mayor of the City of New York, of its intention so to do, quit and surrender the said premises and remove all its property therefrom; and upon and after such notice, the said party of the second part shall and will, at the expiration of the said six months, quietly and peaceably yield up and surrender unto the said party of the first part and its successors all and singular the aforesaid demised premises. And it is expressly understood and agreed by and between the parties hereto that if the said party of the second part shall omit to do, perform, fulfill or keep any or either of the covenants, articles, clauses and agreements, matters and things herein contained, which on its part are to be done, performed, fulfilled or kept, according to the true intent and meaning of these presents, then and from thenceforth this grant and demise shall be utterly null and void. And in such case it shall and may be lawful for said Department to serve or cause to be served on the said party of the second part a notice in writing declaring that the said grant hereinbefore made has become utterly null and void and thereupon the said party of the first part, its successor or successors (ninety days' time being first given to the said party

of the second part to remove its property therefrom), may reënter, and shall again have, repossess and enjoy the premises aforementioned, the same as in their first and former estate, and in like manner as though these presents had never been made, without let or hindrance of the said party of the second part, anything here contained to the contrary notwithstanding.

*Ninthly.*—And it is further expressly understood and agreed, by and between the parties hereto, that this agreement may be wholly canceled and annulled, or, from time to time, altered, or modified, as may be agreed, in writing, between the said parties, or their successors, anything herein contained to the contrary in anywise notwithstanding.

*In witness whereof*, the party of the first part hath caused this agreement to be executed by their President and Secretary, pursuant to a resolution of the Board of Commissioners of said Department, adopted at a meeting held on the thirtieth day of January, in the year of our Lord one thousand eight hundred and seventy-eight; and the said party of the second part hath caused the same to be executed by their President, and their official seal affixed thereto, pursuant to a resolution of the Trustees of the American Museum of Natural History, adopted at a meeting held on the twelfth day of February, in the year of our Lord one thousand eight hundred and seventy-seven.

In presence of  
D. PORTER LORD.

JAMES F. WENMAN,  
*President Department of Public Parks  
of the City of New York.*

WILLIAM IRWIN,  
*Secretary Department of Public Parks  
of the City of New York.*

ROBERT L. STUART,  
*President American Museum of  
Natural History.*

SEAL  
of the American  
Museum of  
Natural History

STATE OF NEW YORK, }  
City and County of New York, } ss. :

On this 12th day of February, in the year 1878, before me personally came James F. Wenman, President of the Department of Public Parks of the City of New York, and William Irwin, Secretary of the said Department of Public Parks, with both of whom I am personally acquainted, and both of whom being by me duly sworn, said that they reside in the City and County of New York ; that the said James F. Wenman is the President, and the said William Irwin is the Secretary of the said Department of Public Parks, and that they signed their names to the foregoing agreement by order of the Board of Commissioners of the said Department of Public Parks, as such President and Secretary.

[SEAL.]

W. C. BESSON,  
(73) *Notary Public N. Y. Co.*

STATE OF NEW YORK, }  
City and County of New York, } ss. :

On this 12th day of February, in the year 1878, before me personally came Robert L. Stuart, the President of the American Museum of Natural History, with whom I am personally acquainted, who being by me duly sworn, said that he resides in the City and County of New York, that he is the President of the American Museum of Natural History, and that he knows the corporate seal of said museum, that the seal affixed to the foregoing agreement is such corporate seal, that it is affixed thereto by order of the Board of Trustees of said American Museum of Natural History, and that he signed his name thereto by the like order, as President of said Museum.

[SEAL.]

W. C. BESSON,  
(73) *Notary Public N. Y. Co.*

Recorded in the office of the Register of the City and County of New York in Liber 1426 of Cons., page 402, February 16, A. D. 1878, at 9 o'clock A.M., and examined.

Witness my hand and official seal,

[SEAL.]

FREDERICK W. LOEW,  
*Register.*

NOTE.—July 25, 1892, by consent of the Trustees, section fourth was modified to enable the Trustees to open the Museum free to the public "throughout the year, excepting Mondays, but including Sunday afternoons and two evenings of each week."

June 29, 1893, by consent of the Trustees, section fourth was modified to enable the Trustees to open the Museum free of charge to the public "throughout the year for five days in each week, one of which shall be Sunday afternoon, and also two evenings of each week."

CONSTITUTION  
OF THE  
AMERICAN MUSEUM OF NATURAL HISTORY  
IN THE CITY OF NEW YORK  
Amended May 10, 1909

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ARTICLE I

This Corporation shall be styled THE AMERICAN MUSEUM OF NATURAL HISTORY.

ARTICLE II

The several persons named in the charter, and such others as they may add to their number, which shall not exceed twenty-five in all at one time, and in addition, the Mayor, the Comptroller, and the President of the Department of Public Parks, of the City of New York, for the time being, *ex-officio*, shall be the Trustees to manage the affairs, property and business of the Corporation.

The members of the Board of Trustees holding office at the time of the regular quarterly meeting of November, 1905, shall then, or at the first meeting of the Board thereafter, be divided by lot into five classes of five members each, to serve for the terms of one, two, three, four and five years respectively from the date of the annual meeting of February, 1906. The Board of Trustees at each annual meeting thereafter, or an adjournment thereof, shall by ballot, by a majority vote of the Trustees present at the meeting, elect five Trustees to supply the places of the class whose term expires at that meeting; said newly elected Trustees to hold office for five years or until their successors are elected. In case of a vacancy in the Board by death, resignation, disqualification or otherwise, the vacancy shall be filled by ballot, in like manner, by the Board of Trustees at any regular meeting or special meeting, for the unexpired term. No person shall be eligible for election as Trustee who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board, nor be

eligible unless his name shall be presented by the Nominating Committee at a regular or special meeting of the Board previous to the meeting at which his name shall be acted upon. Written notice of such election and the vacancy to be filled shall be sent to the Trustees at least one week prior to said meeting.

### ARTICLE III

The Trustees shall meet quarterly, on the second Monday of every February, May, August and November, at an hour and place to be designated, on at least one week's written notice from the Secretary, and shall annually, at the quarterly meeting in February, elect the officers and committees for the ensuing year. They shall also meet at any other time to transact special business on a call of the Secretary, who shall issue such call whenever requested so to do, in writing, by five Trustees, or by the President, and give written notice to each Trustee of such special meeting, and of the object thereof, at least three days before the meeting is held.

### ARTICLE IV

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President, a Treasurer and a Secretary. The President and Vice-Presidents shall be elected from among the Trustees. The Treasurer and Secretary may or may not be chosen from such Trustees. These officers shall be elected by ballot, and the persons having a majority of the votes cast shall be deemed duly elected. They shall hold their offices for one year or until their successors shall be elected.

SEC. 2. The Board of Trustees shall appoint each year, in such manner as it may direct, the following Standing Committees: an Executive Committee, an Auditing Committee, a Finance Committee, a Nominating Committee. These Committees are all to be elected from the Trustees, and the members shall hold office for one year or until their successors shall be elected.



The Board of Trustees shall also have authority to appoint such other committees or officers as they may at any time deem desirable, and to delegate to them such powers as may be necessary.

## ARTICLE V

SECTION 1. The President shall have a general supervision and direction over the affairs of the Corporation, and shall preside at all the meetings of the Museum and of the Trustees. In his absence or inability to act, the First or Second Vice-President shall act in his place.

SEC. 2. The Secretary shall be present, unless otherwise ordered by the Board, at all the meetings of the Museum and Trustees, of the Executive Committee and such other Committees as the Board may direct. He shall keep a careful record of the proceedings of such meetings, shall preserve the seal, archives and correspondence of the Museum, shall issue notices for all meetings of the Trustees and various committees, and shall perform such other duties as the Board may direct.

The Board of Trustees shall have power to appoint an Assistant Secretary, who, under its direction, shall perform the duties of the Secretary in his absence or inability to act.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each quarterly meeting of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the annual meeting of the receipts and disbursements of the past year, with such suggestions as to the financial management of the Museum as he may deem proper.

SEC. 4. The accounts of the Museum shall be kept at the General Office, in books belonging to it, which shall at all times be open to the inspection of the Trustees.

These accounts shall be under the care of an Assistant Treasurer, who shall be appointed by the Board of Trustees and be under its direction. He shall give such bonds for the faithful performance of his duties as the Board may direct.

SEC. 5. The offices of Secretary and Assistant Treasurer may be held by the same person.

## ARTICLE VI

The Executive Committee shall consist of nine Trustees, of whom the President, First and Second Vice-Presidents and Treasurer, in case he be a Trustee, shall be four, and five other members to be appointed each year in the manner provided in Article IV. They shall have the control and regulation of the collections, library and other property of the Museum; and shall have power to purchase, sell and exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two thousand dollars at one time, or exceeding in all ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees. Five members of the Committee shall constitute a quorum for the transaction of business.

## ARTICLE VII

The Auditing Committee shall consist of three Trustees. They shall have the books of the Museum duly audited, at least once in six months, by an authorized public accountant to be selected by them.

No bills shall be paid unless approved, in writing, by the President, the Chairman of the Executive Committee, or the Director.

## ARTICLE VIII

The Finance Committee shall consist of four Trustees, including the Treasurer in case he be a Trustee. They shall have general charge of the moneys and securities of the Endowment and other permanent funds of the Museum, and such real estate as may become the property of the Corporation, with authority to invest, sell and reinvest the same, subject to the approval of the Board of Trustees.

## ARTICLE IX

The Nominating Committee shall be composed of three Trustees, to whom shall be first submitted the names of any persons proposed as candidates for election to membership in the Board of Trustees. The Committee shall report on such candidates from time to time, as it may deem to be for the interest of the Museum. A fortnight before the annual meeting they shall prepare and mail to each member of the Board of Trustees a list of five candidates to be elected by ballot at the said meeting.

## ARTICLE X

The President shall be a member, *ex-officio*, of all standing committees.

## ARTICLE XI

Nine Trustees shall constitute a quorum for the transaction of business, but five Trustees meeting may adjourn and transact current business, subject to the subsequent approval of a meeting at which a quorum shall be present.

## ARTICLE XII

By-Laws may be made from time to time by the Trustees providing for the care and management of the property of the Corporation and for the government of its affairs, and may be amended at any meeting of the Trustees by a vote of a majority of those present, after a month's notice in writing of such proposed amendment.

## ARTICLE XIII

Any person contributing or devising \$50,000 in cash, securities or property to the funds of the Museum may be elected a Benefactor of the Museum.

Any person contributing \$1,000 to the funds of the Museum, at one time, may be elected a Patron of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

Any person contributing \$500, at one time, may be elected a Fellow, who shall have the right to appoint one successor in such fellowship.

*No appointment of a successor shall be valid unless the same shall be in writing, endorsed on the certificate, or by the last will and testament.*

Any person contributing \$100, at one time, may be elected a Life Member.

Any person may be elected to the above degrees, who shall have given to the Museum books or specimens, which shall have been accepted by the Executive Committee, or by the President, to the value of twice the amount in money requisite to his admission to the same degree.

Benefactors, Patrons, Fellows and Life Members shall be elected by the Board of Trustees or by the Executive Committee, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

The Trustees may also elect Honorary Fellows of the Museum in their discretion.

#### ARTICLE XIV

Any person who has held the office of President for ten or more successive years may be elected by the Trustees as Honorary President for life.

#### ARTICLE XV

No alterations shall be made in this Constitution, unless at a regular quarterly meeting of the Trustees, or at a special meeting called for this purpose; nor by the votes of less than a majority of all the Trustees; nor without notice in writing of the proposed alteration, embodying the amendment proposed to be made, having been given at a regular meeting.

# BY-LAWS

Amended May 10, 1909

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## I

Benefactors, giving \$50,000, are each entitled to 1 Subscriber's Ticket, 10 Complimentary Season Tickets and 10 Tickets for a single admission.

Patrons, giving \$1,000, are each entitled to 1 Subscriber's Ticket, 5 Complimentary Season Tickets and 10 Tickets for a single admission.

Fellows, giving \$500, are each entitled to 1 Subscriber's Ticket and 10 Tickets for a single admission.

Life Members, giving \$100, are each entitled to 1 Subscriber's Ticket and 7 Tickets for a single admission.

Sustaining Members, paying \$25 yearly, are each entitled to 1 Subscriber's Ticket and 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket and 4 Tickets for a single admission.

[NOTE.—A Subscriber's Ticket admits to the laboratories and parts of the Museum not open to the public, also to all Receptions and Special Exhibitions, and may be used by any member of the Subscriber's family.]

The Single Admission Tickets admit the bearers to the laboratories and parts of the Museum not open to the public, and are issued to Subscribers for distribution among friends and visitors.]

## II

Any Trustee who shall fail to attend three consecutive Regular Quarterly Meetings of the Board shall cease to be a Trustee, unless excused by the Board.

## III

No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employee of the Museum, except as provided for in the Constitution. Any desired additional expenditure shall first receive the approval of the Board of Trustees.

IV

If any Trustee shall accept a salary from this Corporation he shall thereby be disqualified for the time being from acting as a Trustee thereof; provided, that the Board of Trustees shall have power to suspend the operation of this law in any special case.

V

Any vacancies occurring in the membership of the several committees during the interval between the regular meetings of the Board of Trustees may be filled at a regular meeting of the Executive Committee, until the next meeting of the Board.

VI

All bequests or legacies, not especially designated, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

VII

At such times as it may be impracticable to obtain the services of the members of the Auditing Committee, the members of the Executive Committee may act in their place and stead.

FOR THE EQUIPPING AND FINISHING OF THE  
BUILDING AND THE CONSTRUCTION OF  
ADDITIONS THERETO

LEGAL ENACTMENTS OF 1905

BY THE BOARD OF ALDERMEN

AN ORDINANCE providing for an issue of Corporate Stock in the sum of five hundred thousand dollars (\$500,000), to provide means for the equipping and finishing of The American Museum of Natural History in Manhattan Square, Borough of Manhattan, and the construction of additions thereto.

Be it ordained by the Board of Aldermen of the City of New York as follows:

SECTION 1. The Board of Aldermen hereby approves of and concurs in the following resolution adopted by the Board of Estimate and Apportionment March 16, 1905, and authorizes the Comptroller to issue Corporate Stock of The City of New York to the amount and for the purposes therein specified:

*"Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended by chapter 409 of the Laws of 1904, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of the City of New York, to an amount not exceeding five hundred thousand dollars (\$500,000), to provide means for the equipping and furnishing of The American Museum of Natural History in Manhattan Square, Borough of Manhattan, and the construction of additions thereto, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue Corporate Stock of the City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding five hundred thousand dollars (\$500,000), the proceeds whereof to be applied to the purposes aforesaid."*

Adopted by the Board of Aldermen April 11, 1905, a majority of all the members elected voting in favor thereof.

Approved by the Mayor April 18, 1905. (Signed) P. J. SCULLY, *Clerk*.

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Contracts awarded to December 31, 1910.

For the erection of Fire Lines, Sprinkler System, Fire Escapes, etc.

Contract awarded R. J. F. Gerstle Company, November 26, 1905, \$19,838.

Completed January 11, 1907.

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For the erection and completion of a New Wing, to be known as the South Wing of the West Façade, and a Permanent Cellar Passageway running therefrom in northerly and easterly direction.

Contract awarded Guidone & Galardi, May 22, 1906, \$325,000.

Completed June 6, 1908.

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For the construction of a Service Roadway from Ninth Avenue to and under the New South Wing of the West Façade.

Contract awarded Atlanta Contracting Company, July 1, 1909, \$26,100.

Completed May 29, 1910.

**APPROPRIATIONS AND EXPENDITURES MADE THEREON  
TO DECEMBER 31, 1910**

**APPROPRIATION:**

By Direct Appropriation.....	\$500,000 00	
Premiums on Sale of Bonds.....	<u>11,090 63</u>	
		<b>\$511,090 63</b>

**EXPENDITURES:**

Guidone & Galardi.....	\$325,600 00	
Charles Volz, Architect's Fees....	16,279 95	
R. J. F. Gerstle Co.....	19,838 00	
Charles Volz, Architect's Fees....	991 89	
Atlanta Contracting Co.....	26,100 00	
Charles Volz, Architect's Fees....	1,304 99	
Cady, Berg & See.....	6,935 71	
Harlem Contracting Co.....	4,430 27	
George H. Storm & Co.....	1,725 16	
Pittsburgh Plate Glass Co .....	1,696 77	
M. G. Reeves.....	1,596 00	
Connecticut Dynamo & Motor Co..	875 09	
Museum Orders.....	39,963 77	
Carpenters' Payroll, etc.....	<u>62,779 78</u>	
		<b>\$510,117 38</b>
Outstanding Contracts (Harlem Contracting Co.).....	222 67	<u>\$510,340 05</u>
Available Balance Dec. 31, 1910.....		<u><b>\$750 58</b></u>



# FOR FURNISHING AND EQUIPPING THE AMERICAN MUSEUM OF NATURAL HISTORY

LEGAL ENACTMENTS OF 1909

BY THE BOARD OF ALDERMEN

AN ORDINANCE providing for an issue of Corporate Stock in the sum of one hundred thousand dollars (\$100,000), to provide means for furnishing and equipping The American Museum of Natural History, Seventy-seventh Street and Columbus Avenue, Borough of Manhattan.

Be it ordained by the Board of Aldermen of The City of New York as follows:

SECTION 1. The Board of Aldermen hereby approves of and concurs in the following resolution adopted by the Board of Estimate and Apportionment July 2, 1909, and authorizes the Comptroller to issue Corporate Stock of The City of New York to the amount and for the purposes therein specified:

*"Resolved,* That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of The City of New York, to an amount not exceeding one hundred thousand dollars (\$100,000), to provide means for furnishing and equipping The American Museum of Natural History, Seventy-seventh Street and Columbus Avenue, Borough of Manhattan, and when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue Corporate Stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one hundred thousand dollars (\$100,000), the proceeds whereof to be applied to the purposes aforesaid."

Adopted by the Board of Aldermen July 13, 1909, a majority of all the members elected voting in favor thereof.

Approved by the Mayor July 26, 1909.

(Signed) P. J. SCULLY, *Clerk.*

**APPROPRIATIONS AND EXPENDITURES MADE THEREON  
TO DECEMBER 31, 1910**

**APPROPRIATION:**

By Direct Appropriation.....	\$100,000 00	
Premiums on Sale of Bonds.....	445 84	
		<u>\$100,445 84</u>

**EXPENDITURES:**

John F. Kuhn.....	\$ 1,643 00	
Museum Orders.....	11,164 02	
Carpenters' Payrolls, etc.....	28,829 49	
		<u>\$41,636 51</u>

**OUTSTANDING CONTRACTS:**

Peter J. Constant.....	\$1,681 91	
Pittsburgh Plate Glass Co.....	2,705 98	
Cardo Borgia Stone Co.....	1,552 10	
Peter J. Constant.....	836 00	
Library Bureau.....	989 62	
	<u>\$7,765 61</u>	<u>\$49,402 12</u>
Available Balance Dec. 31, 1910.....		<u>\$51,043 72</u>

# LIST OF MEMBERS

## PATRONS

*By contribution of \$1,000 or upwards, or through honorary election*

EDWARD D. ADAMS.  
 JOHN ANDERSON.\*  
 JAMES ANGUS.\*  
 HICKS ARNOLD.\*  
 RICHARD ARNOLD.\*  
 WILLIAM H. ASPINWALL.\*  
 JOHN JACOB ASTOR.\*  
 WILLIAM WALDORF ASTOR.  
 HUGH AUCHINCLOSS.\*  
 BENJAMIN AYMAR.\*  
 MRS. GUY ELLIS BAKER.  
 A. H. BARNEY.\*  
 D. N. BARNEY.\*  
 JAMES GORDON BENNETT.  
 FREDERICK BILLINGS.\*  
 HEBER R. BISHOP.\*  
 GEORGE BLISS.\*  
 GEORGE T. BLISS.\*  
 Miss SUSAN DWIGHT BLISS.  
 WILLIAM T. BLODGETT.\*  
 ROBERT BONNER.\*  
 HENRY BOOTH.  
 M. C. D. BORDEN.  
 J. A. BOSTWICK.\*  
 GEORGE S. BOWDOIN.  
 GEORGE DEXTER BRADFORD.\*  
 ALEX. H. BROWN, M.P.  
 JAMES BROWN.\*  
 Miss MATILDA W. BRUCE.\*  
 HERMON C. BUMPUS.  
 JOHN L. CADWALADER.  
 MRS. CARNEGIE.  
 Dr. WALTER CHANNING.  
 JOSEPH H. CHOATE.  
 EDWARD CLARK.\*  
 JONAS G. CLARK.\*  
 JAMES B. COLGATE.\*  
 ROBERT COLGATE.\*  
 FREDERICK A. CONSTABLE.\*  
 MRS. FREDERICK A. CONSTABLE.  
 JAMES M. CONSTABLE.\*  
 GEORGE C. COOPER.\*  
 PETER COOPER.\*

AUSTIN CORBIN.\*  
 ALEXANDER I. COTHEAL.\*  
 JOHN D. CRIMMINS.  
 JOHN J. CROOKE.  
 CORNELIUS C. CUYLER.\*  
 THOMAS DE WITT CUYLER.  
 W. M. DONGAN DE PEYSTER.  
 L. P. DI CESNOLA.\*  
 A. G. PHELPS DODGE.  
 CLEVELAND H. DODGE.  
 WILLIAM E. DODGE, 1st.\*  
 WILLIAM E. DODGE, 2d.\*  
 MRS. WILLIAM E. DODGE.\*  
 JAMES DOUGLAS.  
 ANDREW E. DOUGLASS.\*  
 JOSEPH W. DREXEL.\*  
 D. G. ELLIOT.  
 MRS. M. SCHUYLER ELLIOT.  
 JAMES R. ELY.  
 Lieut. G. T. EMMONS, U.S.N.  
 BENJAMIN H. FIELD.\*  
 CYRUS W. FIELD.\*  
 CYRUS W. FIELD, Jr.\*  
 Prof. AUGUSTE FOREL.  
 HENRY C. FRICK.  
 WILLIAM T. GARNER.\*  
 ELBRIDGE T. GERRY.  
 ROBERT W. GOELET.  
 LUDWIG MAX GOLDBERGER.  
 GEORGE J. GOULD.  
 JOHN A. C. GRAY.\*  
 WILLIAM A. HAINES.\*  
 ANSON W. HARD.  
 OLIVER HARRIMAN.\*  
 HENRY O. HAVEMEYER.\*  
 THEODORE A. HAVEMEYER.\*  
 GEORGE G. HAVEN.\*  
 GEORGE A. HEARN.  
 ABRAM S. HEWITT.\*  
 MRS. ABRAM S. HEWITT.  
 VeryRev. E. A. HOFFMAN, D.D., LL.D.\*  
 MRS. EUGENE A. HOFFMAN.  
 SAMUEL V. HOFFMAN.

\* Deceased

ARCHER M. HUNTINGTON.  
 C. P. HUNTINGTON.\*  
 MRS. C. P. HUNTINGTON.  
 B. H. HUTTON.\*  
 B. T. BABBITT HYDE.  
 Dr. FREDERICK E. HYDE.  
 FREDERICK E. HYDE, Jr.  
 JAMES H. HYDE.  
 ADRIAN ISELIN.\*  
 ADRIAN ISELIN, Jr.  
 ARTHUR CURTISS JAMES.  
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 Gaunt, James  
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     Henry William  
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Hague, Arnold  
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 Hendricks, Francis  
 Hendricks, Harmon W.  
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Benjamin Rush  
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 Markoe, Dr. J. W.  
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141

Pope, Sylvester  
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